

## 1.0 Introduction

This specification describes the standard、 operation environment、 and technic requirements of the product.

## 2.0 Requirement of production standard and safety regulations

### 2.1 The product satisfy requirements

#### 2.1.1 GB12350

GB12350 《Safety requirments of small power motors》

#### 2.1.2 GB/T13275

GB/T13275 《General technical requirement for general centrifugal fan》

#### 2.2.3 EN60335-1

EN60335-1 《Household and similar electrical appliances-safety》

### 2.2 The fan has CE Safety regulations certificate.

### 2.3 All material accord with RoHS (**Need to note**).

## 3.0 Operating environment requirements

### 3.1 Operating temperature and humidity 。

Operating temperatures from -20℃ to +60℃, Operating humidity from 0% to 95% RH.

### 3.2 Storing temperature and humidity

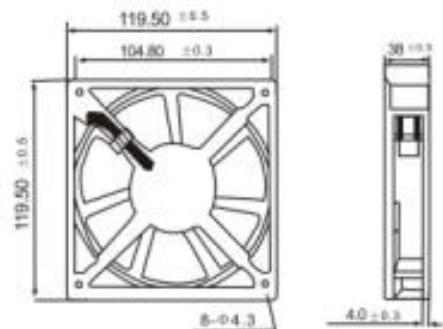
Storaging temperatures from -20℃ to +60℃; Storaging humidity from 0% to 95% RH.

## 4.0 Mechanical requirements

### 4.1 Dimension drawing



RQA120×120×38mm



#### 4.2 Impeller

Impeller made of lengzha board materials, welding technology。

#### 4.3 Motor

External rotor AC motor

#### 4.4 Balancing

At  $2300 \pm 50\%$  r/min running speed, the residual unbalance of the fan is not less than G4.0 (balancing precision grade) in each plane, according with JB/T9101。

#### 4.5 Vibration of the fan

Vibration speed virtual value of fans accord with JB/T8689。

#### 4.6 Runout of impeller

Runout of impeller in axial and radial direction  $\leq 1.2\text{mm}$ 。

#### 4.7 Drop Test

The fan is mounted on the machine, in the packaged condition the drop (drop height: 610mm, six-sided triangular corner once each fall), test

After the fan functions properly, not loose, fall off, deformation phenomena。

#### 4.8 Type of protection

Type of protection is IP20。

#### 4.9 Life time

Fan life expectance 50000 hours, determined when at nominal supply voltage, running at full speed, environment temperature of  $25\text{ }^\circ\text{C}$ 。

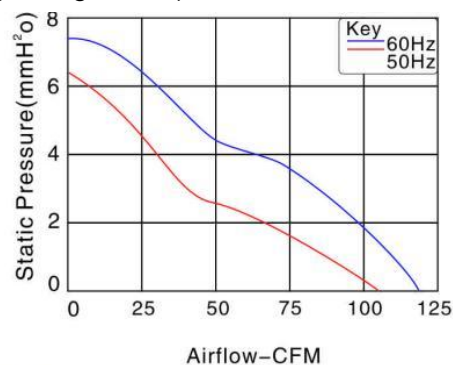
#### 5.0 Fan performance(H/M/L)

##### 5.1 Rating data(Single Fan Test)

All test data for individual products directly to the test results, customer data load after load change

Voltage[V]	Frequency [ Hz ]	/Starting capacitor[ $\mu\text{F/v}$ ]	Current draw [ $\pm 10\%$ A]	Power input[ $\pm 10\%$ W]	Speed [-10%r/min]	Air flow [ $\pm 10\%$ ]m <sup>3</sup> /h	Noise level [dB(A)]	Insulation class
220	50	/	0.135	22.8	2500/2600	90/100	42/44	F

#### 5.2 Performance curve (Rating voltage 220V)



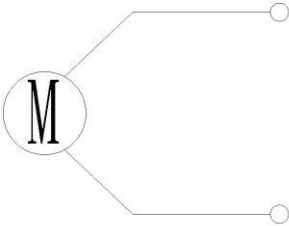
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### 5.3 Temperature Rise

1.1 times the rated voltage (242V), the motor temperature should be less than 115K.

### 6.0 Electrical performance

#### 6.1 View lead connection



#### 6.2 Voltage range

The fan is designed to operate at a nominal voltage of 220V but can be operated in the supply voltage range  $\pm 10\%$

#### 6.3 Protection

impedance protection.

### 7.0 Quality requests

7.1 Quality requests accord with TAIDA standard

7.2 each batch of products are available to ship inspection reports. .

### 8.0 Product marks

8.1 TAIDA / Logo Tidar  Yes,  
 No

8.2 Nameplate drawing: Tidar

### 9.0 Packaging and marks

#### 9.1 Packaging

The packaging has to be well dimension and structure, so that the fans for on normal transport couldnot be damaged.

#### 9.2 Marks

Markings: Name of manufacturer, type of fan, date of manufacture, weight,Size etc.

### 10.0 Other requirements on accessory

10.0.1 Inlet cones Belt / Yes,  
Without / No;

10.0.2 Capacitor Belt /Yes,  
Without /No;

#### 10.0.3 Annectent parts

10.0.4 linker(Yes, /No),

10.0.5 terminal(Yes, No)

