



SPECIFICATION FOR APPROVAL

KAKU

REV:KA01



GB/T 19001-2016/ISO 9001: 2015标准

Certificate No.04617-Q11837R1M

CUSTOMER :
CUSTOMER P/N. :
SAMPLE NO. :
MODEL NO. :KA1238-3500D24BL FG+PWM
DESCRIPTION.
ISSUE DATE. :

Make		
Approved	Auditing	Prepared
DATE: 2019 02 22		



Customer acknowledges		
Approved	Auditing	Engineering
DATE: 2019 02 22		

THIS OFFER IS MADE ACCORDING TO YOUR COURRENT INQUIRY.UNLESS OTHERWISE REVISED,THIS SPECIFICATION WILL BE FINAL FOR ALL FUTURE PRODUCTION OF ORDERS FROM YOUR RESPECTED COMPANY.

Thanks for your interest in our products. Please sign and return this page to us after confirming your approval.

SHANGHAI KAKU ELECTRIC EQUIPMENT CORP

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Specifications

A. (General Specification)

ITEM	Specification Condition	
Part No.	KA1238-3500D24BL FG+PWM	
Dimension	120×120×38mm	
Rated Voltage	24VDC	
Start-up Voltage	12VDC	
Operating Voltage	21.6~26.4VDC	a. Rated Voltage b. 25℃ c. 65% RH d. Measured after 5 Mins
Rated Speed	3500rpm±10%	
Rated Current	0.4A±10%	
Rated Power	9.12W±10%	
Max Airflow	128CFM	
Max Static Pressure	8.0mm-H2O	
Acoustic sound level	49dB Max	
PROTECITON	[]ZP []TP [√]EP	
OPTIONAL FUNCTIONS	[√]PWM [√]FG []RD	
Weight	275g/pcs	
Insulation	[]B class []/	
Safety Approval	[]UL [√]CE [√]ROHS []3C []IP54/SGS []-50℃ []Mg impeller [√]PBT impeller	

Rated current rated speed, and rated input power shall reach bottom line of specification after 5 minutes continuous rotation at rated voltage and reach standard specification after 10 minutes continuous at rated voltage.

Starting voltage is the least voltage that enables to start the fan by sudden power on.

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Specifications

B. (Main Materials, Parts Specification)

Bearing	<input checked="" type="checkbox"/> (Dual Ball Bearing)	<input type="checkbox"/> (Sleeve Bearing)
Frame	<input type="checkbox"/> High quality magnesium alloy die-casting frame with ED coating+powder coating.	
	<input type="checkbox"/> High quality Aluminum alloy die-casting frame with ED coating+powder coating.	
	<input checked="" type="checkbox"/> P.B.T+30%GF(Glass fiber) UL 94V-0	
Impeller	<input type="checkbox"/> High quality magnesium alloy die-casting frame with ED coating+powder coating.	
	<input type="checkbox"/> High quality Aluminum alloy die-casting frame with ED coating+powder coating.	
	<input checked="" type="checkbox"/> P.B.T+30%GF(Glass fiber) UL 94V-0	
Connection type	<input type="checkbox"/> Terminal suit with 0.5×3×7mm PIN	
	<input checked="" type="checkbox"/> Lead Wire	
	<input checked="" type="checkbox"/> UL1007 24AWG, 4wires 250±10mm	
	<input type="checkbox"/> 60277 IEC53(RVV)300/500V 2*0.75mm ²	
	<input type="checkbox"/> Red(+) <input type="checkbox"/> Black(-) <input checked="" type="checkbox"/> Blue (PWM) <input checked="" type="checkbox"/> Yellow(FG) <input type="checkbox"/> White(RD)	
Connector	No	
Tube	No	
Washer Material	<input checked="" type="checkbox"/> PET	<input type="checkbox"/> SUS304
Finger guard	<input type="checkbox"/> ABS	<input type="checkbox"/> METAL <input type="checkbox"/> 1PC Included in this fan
Accessories	<input type="checkbox"/> PV1.25-3A-0.5 terminal×2 <input type="checkbox"/> M5 bolt×4 <input type="checkbox"/> Earth bolt×1 <input type="checkbox"/> RJ22 222-412 terminal clip×2	

C. (Electrical Specification)

Insulation Resistance

At least 10MΩ at 500 VDC between housing and both lead wires.

Dielectric Strength

☒ Withstand 500 VAC 1 minute 1mA between housing and both lead wires.☐ 2 seconds at 2200 V☐ 2 seconds at 1800 V

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Specifications

D. (Characteristics&definition)

Operating temperature
Storage temperature
Humidity RH

Life Expectancy

Rotating Direction

Endurance test line

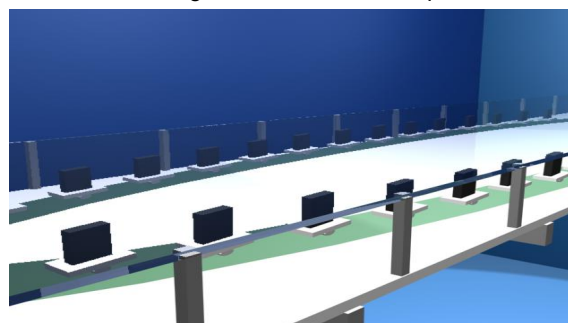
[] -50°C ~ +70°C [] -40°C ~ +70°C [√] -10°C ~ +70°C [] others

The storage temperature will be suggested at -20°C ~ 85°C to ensure a better performance standards.
20 % ~ 85 % (Max)

75000h at 25degrees without Load continuous operation at rated voltage and normal humidity

Rotation direction is according to the arrow mark which die-caste on the housing. A clear“= >” (arrow mark)shall be found on the body of housing.

All the fans should be put on the endurance test line. Then we run the fan 30 minutes with 1.05 times of the rated voltage to test the function performance of the fan.



Rated Current

Start Voltage

Rated Speed

Input power

Air flow & static pressure

Rated current shall be measured after 30 minutescontinuous rotation at rated voltage.

The voltages that enable to start the fan by sudden switch on.

Rated speed shall be measured after 30 minutes continuous rotation at rated voltage.

Input power shall be measured after 30 minutes continuous rotation at rated voltage.

The air flow data and static pressures are determined in accordance with AMCA standard or DIN 24163 specification in a double-chamber testing with intake-side measurement.

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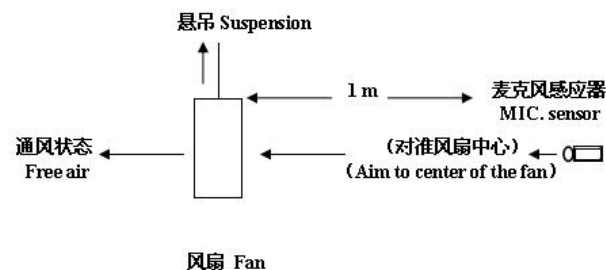


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Specifications

Noise level

The measurement of noise level is carried out with reference to CNS8753 in a an echoic chamber with the microphone positioned 1 M form the air intake. Testing fan shall be hung in clear air.



E. Note:

Our products should be used within the specification appointed condition, so we will not guarantee this product quality if your application exceeds the limitations outlined in this specification.

Please use fan guards to avoid personal accidental injuries.

Unless this fan motor is specified for use in abnormal environments designated by IP rating level, this fan is designed to operate under normal environmental conditions.

Please use filters to clean the air-intake in very dusty air environments for extended fan life.

Unless Prior agreement,

We reserve the right to use components with equivalent specifications from multiple sources, so material and construction are subject to change without advance notice.

Always ensure that fans are stored according to the storage temperatures specified. Do not store in a high humidity environment. If the fans are stored for more than 6 months, we recommend functional testing before using.

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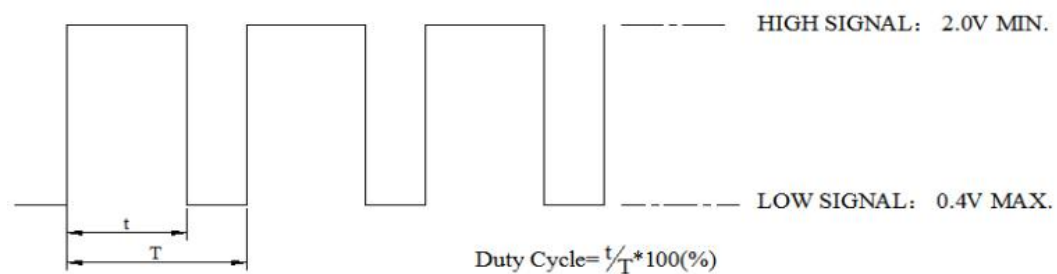
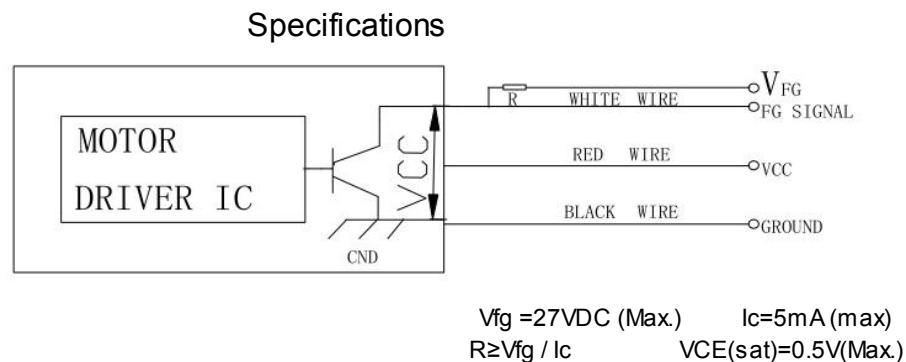
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F. Application Functions

Wiring Diagram

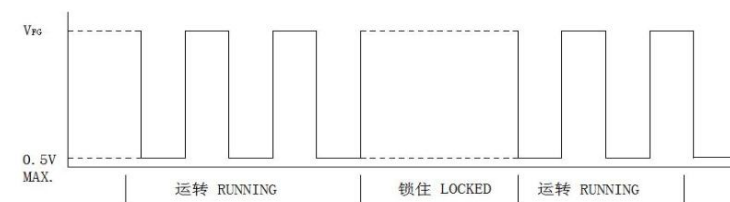
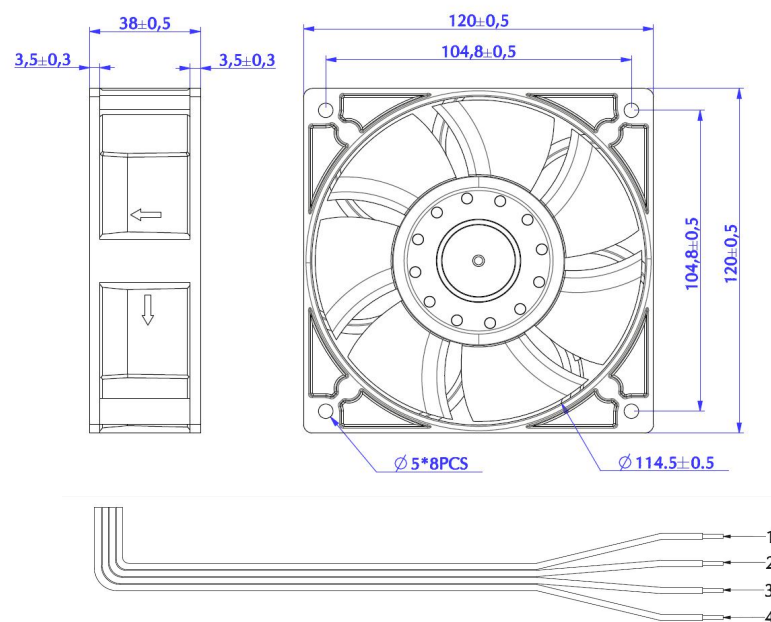


SIGNAL VOLTAGE RANGE: $5 \pm 0.5VDC / CURRENT \leq 2mA$

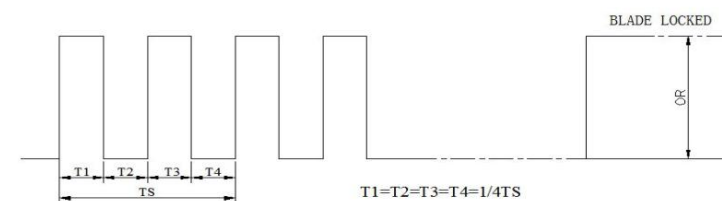
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Specifications

G. outlines dimension



4极运转风扇 (FAN RUNNING FOR 4 POLES)



N=R.P.M

TS=60/N(SEC)

* (锁住扇叶之后的电平(VOLTAGE LEVEL AFTER BLADE LOCKED))

*4极 (4 POLES)

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