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|  KUNSHAN PINDAI ELECTRONICS CO., LTD | | Doc. No. | | | |
| | | Iss. Date | | 2024.05.16 | |
| Title | 12038 FAN SPEC | Page | 1 | Rev. No. | A0 |

SPECIFICATION FOR APPROVAL FOR REFERENCE

CUSTOMER : TBD

DESCRIPTION : AXIAL FAN

DIMENSIONS : 120mm*120mm*38mm

PEAK MODEL : A1238BBLNG2300SR


PEAK PART NO. : CFC03800RG0000A0

VERSION : A0

Please send us back one copy as soon as you affirmed this specification, With your signed approval in order to make quick arrangement for product.

| | | | | | |
|----------------|-----------------|------------------|---------------------------|----------------------|-----------|
| Issued: | Checked: | Approved: | Customer Approved: | ISSUE DATE | 2024.5.16 |
| Yangyang.Xu | Andy.Li | Hank.He | | REVISION DATE | |

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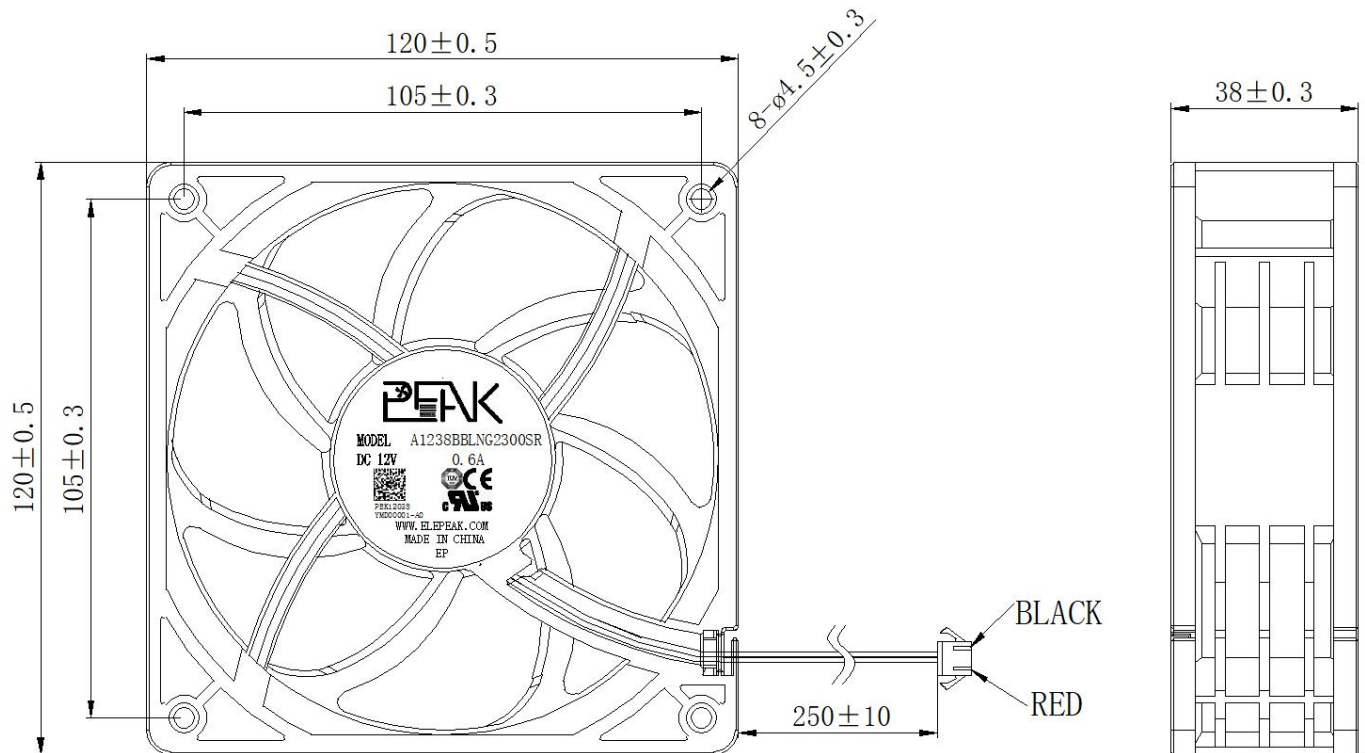
1. SCOPE:THIS SPECIFICATION DEFINES THE ELECTRICAL AND MECHANICAL CHARACTERISTICS OF THE DC BRUSHLESS FAN.

2.CHARACTERS:

| ITEMS | DESCRIPTION | |
|-----------------------------------|---|--------------------------|
| BEARING SYSTEM | 2 BALL | |
| DIRECTION OF ROTATION | Clockwise(viewed from the label side) | |
| MATERIALS OF FRAME | THERMOPLASTIC UL94V0 | |
| MATERIALS OF FAN BLADE | THERMOPLASTIC UL94V0 | |
| RATED VOLTAGE | 12V | |
| MINIMUM STARTING VOLTAGE | 6V | |
| OPERATION VOLTAGE | 7.0~13.2V | |
| RATED CURRENT (IN FREE AIR) | 0.5 (MAX. 0.6) A | |
| RATED POWER (IN FREE AIR) | 6 .0(MAX. 7.2) W | |
| CURRENT ON LABEL (IN FREE AIR) | 0.6A | |
| SPEED (IN FREE AIR)/100% Duty | 3300±10% RPM | |
| SPEED CONTROL TYPE | VOLTAGE CONTROLLER | |
| AIR FLOW(AT ZERO STATIC PRESSURE) | 130.21 (Min. 117.19) CFM | 221.4(Min. 199.2) m³ / h |
| AIR PRESSURE(AT ZERO AIRFLOW) | 7.30 (Min. 5.91) mm-H2O | 71.49 (Min : 58.04) Pa |
| | 0.287 (Min. 0.233) inchH2O | |
| ACOUSTIC NOISE | 45.0 (MAX. 49.0) dB - A | |
| INSULATION RESISTANCE | 10 MEGA OHM MIN. AT 500 VDC (BETWEEN FRAME AND (+) TERMINAL) | |
| DIELECTRIC STRENGTH | 5 mA MAX. AT 500 VAC 60Hz ONE MINUTE, (BETWEEN FRAME AND (+) TERMINAL) | |
| LIFE EXPECTANCE(L10) | 70000HRS AT 40℃ ROOM,HUMIDITY 15%~65%RH | |
| OPERATING TEMPERATURE | -20 TO +70 °C | |
| STORAGE TEMPERATURE | -40 TO +75 °C | |
| OPERATING HUMIDITY | 5 TO 90 % RH | |
| STORAGE HUMIDITY | 5 TO 95 % RH | |
| WEIGHT | 320g (REF.) | |


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DIMENSION DRAWING



NOTES:

1. LEAD WIRE: UL1007 AWG#28
RED WIRE ----- (+)
BLACK WIRE ----- (-)
2. HOUSING: SM-2Y
3. TERMINAL: C2522-2P JWT
4. FRAME TYPE: FLANGE
5. UNITS: mm
6. THIS PRODUCT IS RoHS COMPLIANT

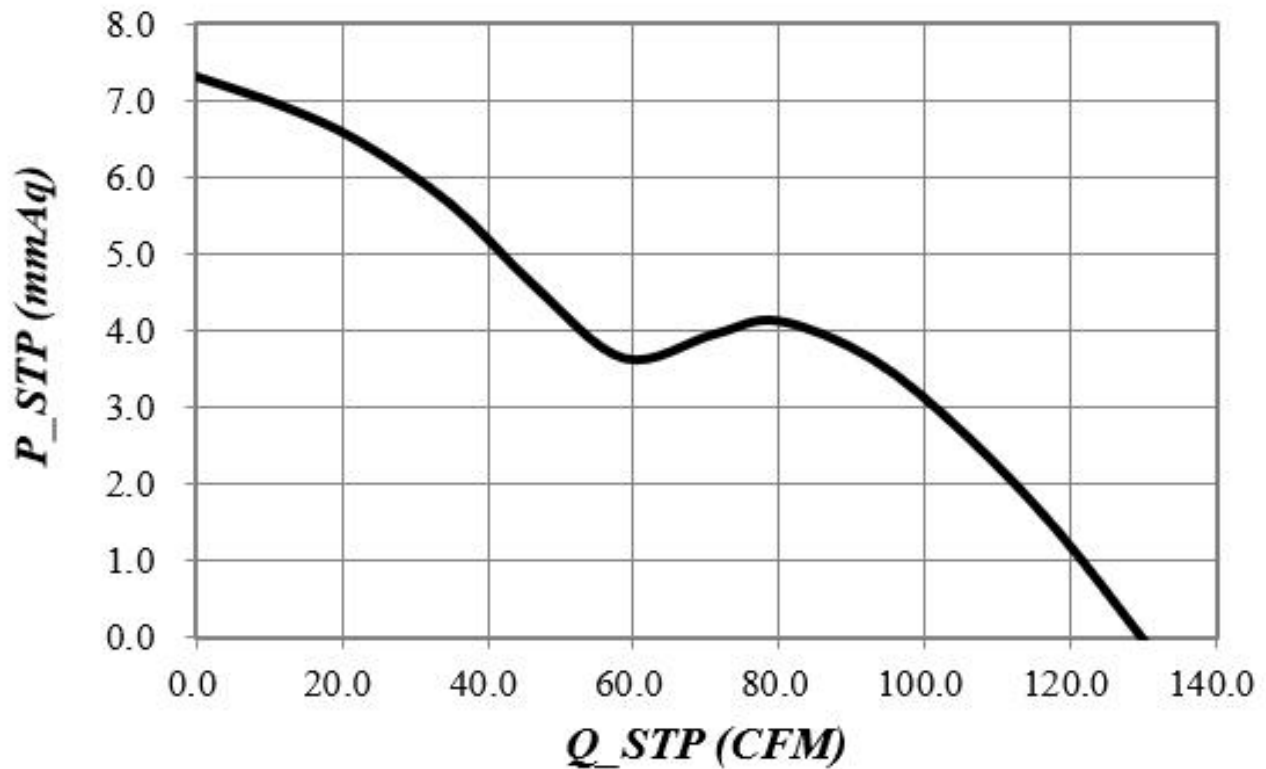
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LABEL



| Model name | Dimension | Voltage | Safety |
|------------------|-----------|---------|-----------|
| A1238BBLNG2300SR | Φ44 | 12 V | UL、TUV、CE |

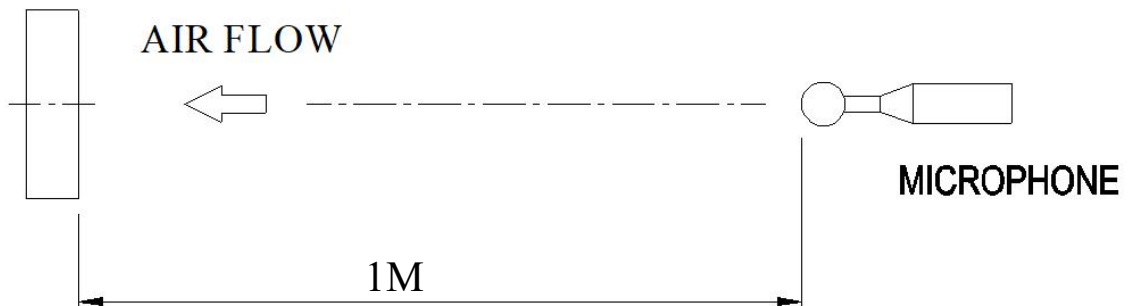
PQ CURVE



TEST CONDITION: INPUT VOLTAGE-----OPERATION VOLTAGE
TEMPERATURE-----ROOM TEMPERATURE
HUMIDITY-----65%RH


ACOUSTIC NOISE MEASURING

MEASURED IN A SEMI-ANECHOIC CHAMBER WITH BACKGROUND NOISE LEVEL BELOW 18dB(A)

DC FAN

1 METER FROM MICROPHONE TO FAN INTAKE

THE FAN IS RUNNING IN FREE AIR UNDER SHAFT HOHORIZONTAL CONDITION WITH THE MICROPHONE
AT DISTANCE OF 1 METER FROM THE FAN INTAKE.

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PRODUCT SAFETY INSTRUCTIONS

- PLEASE DON'T USE THIS PRODUCT BEYOND THIS SPECIFICATION RANGE, IT MAY CAUSE PRODUCT'S BREAKDOWN.
- BE CAREFUL WITH INSTALLING PRODUCT IN YOUR MACHINE, HIT, DROP, SHAKE MAY CAUSE PRODUCT'S MECHANISM PROBLEM.
- DO NOT PRESS THE FAN BLADES OR HUB WHEN HANDLING THE FAN, AVOID CUSHING THE FRAME SIDE AND HITTING/PRESSING THE FAN BASE, DO NOT PULL OUT THE ROTOR/BLADES.
- MAKE SURE THAT V(+) AND GND ARE CONNECTED CORRECTLY, OTHERWISE FAN WILL NOT START UP.
- TOUCH IMPELLER DURING OPERATING WILL CAUSE INJURY OR FAN'S FAILURE, MAKE SURE FAN IS OPERATING ON ENVIRONMENT WITHOUT LOCKING POSSIBILITY.
- AVOID PULLING CABLE WHEN TAKING THE FAN, IT MAY CAUSE ELECTRIC/BEARING FAILURE.
- FANS MUST BE INSTALLED CORRECTLY, IMPROPER MOUNTING MAY CAUSE SEVERE RESONNANCE ,VIBRATION AND NOISE.
- THE "LIFE EXPECTANCY OF THIS FAN HAS NOT BEEN EVALUATED FOR USE IN COMBINATION WITH ANY END APPLICATION. THEREFORE, THE LIFE EXPECTANCY TEST REPORTS(L10 AND MTTF REPORT) THAT RELATE TO THIS FAN ARE ONLY FOR REFERENCE.
- THIS FAN IS WARRANTED AGAINST ALL DEFECTS WHICH ARE PROVED TO BE FAULT IN OUR WORKMANSHIP AND MATERIAL FOR ONE YEAR FROM THE DATE OF OUR DELIVERY. THE SOLE RESPONSIBILITY UNDER THE WARRANTY SHALL BE LIMITED TO THE REPAIR OF THE FAN OR THE REPLACEMENT THEREOF, AT PEAK SOLE DISCRETION. PEAK WILL NOT BE RESPONSIBLE FOR THE FAILURES OF ITS FANS DUE TO IMPROPER HANDLING, MISUSE OR THE FAILURE TO FOLLOW SPECIFICATIONS OR INSTRUCTIONS FOR USE. IN THE EVENT OF WARRANTY CLAIM, THE CUSTOMER SHALL IMMEDIATELY NOTIFY PEAK FOR VERIFICATION. PEAK WILL NOT BE RESPONSIBLE FOR ANY CONSEQUENTIAL DAMAGE TO THE CUSTOMER'S EQUIPMENT AS A RESULT OF ANY FANS PROVEN TO BE DEFECTIVE.