Inhere

APPROVAL SHEET

Customer Name	
Product	DC FAN
Part No.	
Model No.	DF1202524B2MN 2400
Issue Date	JAN.24.2024
Customer No.	
Version	01

CUSTOMER APPROVED	Checked by	Inspected by	Designed by
	James li		pangdehou

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Customer No.:		
Model·	DF1202524B2MN	

History

01	00	ISSUE SPEC	2024-1-24
	01		

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SPECIFICATION FOR APPROVAL

1. SCOPE:

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

2. CHARACTERS:

	ITEM	SPEC.	
2-1.	RATED VOLTAGE	24	VDC
2-2.	OPERATION VOLTAGE	18 ~ 26.4	VDC
2-3.	RATED CURRENT (IN FREE AIR)	0.2	A (AVERAGE)
2-4.	RATED POWER (IN FREE AIR)	4.8	W
2-5.	SPEED (IN FREE AIR)	2400±10%	R.P.M
2-6.	SPEED CONTROL TYPE		
2-7.	SIGNAL OUTPUT		
2-8.	MAX. AIR FLOW (AT ZERO STATIC PRESSURE)	82.3	CFM
2-9.	MAX. AIR PRESSURE (AT ZERO FLOW)	6.29	mm-H2O
2-10.	ACOUSTICAL NOISE	38.2	dB-A

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2-11. INSULATION RESISTANCE —	- 10 MEGA OHM MIN. AT 500 VDC (BETWEEN FRAME AND (+) TERMINAL)
2-12. DIELECTRIC STRENGTH ——	- 5 mA MAX. AT 500 VAC 60Hz ONE MINUTE, (BETWEEN FRAME AND (+) TERMINAL)
2-13. LIFE EXPECTANCE —	- 70,000 HOURS AT 40°C ROOM, AMBIENT 15%~65%RH
2-14. ROTATION —	- COUNTER-CLOCKWISE VIEWED FROM INLET
2-15. AIR FLOW DIRECTION —	- AIR EXHAUST OVER STRUT
2-16. INSULATION CLASS —	- UL: CLASS A
2-17. LEAD WIRE	-LEAD WIRES: 2468 AWG 24

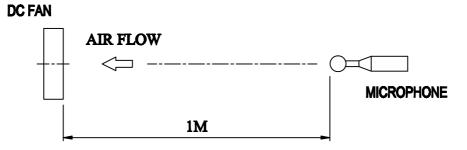
PIN2: RED WIRE (+)

PIN1: BLACK WIRE (-)

NOTE:

A. THE VALUES WRITTEN IN PARENTHESIS, (), ARE LIMITED SPEC.

B. ACOUSTICAL NOISE MEASURING CONDITION:



NOISE IS MEASURED AT RATED VOLTAGE IN FREE AIR IN ACOUSTICAL CHAMBER WITH LARSON DAVIS TYPE 824S SOUND LEVEL METER.

C. THE AIR FLOW AND AIR PRESSURE MEASURED AT RATED VOLTAGE IN DOUBLE CHAMBER IS MEASURED ACCORDING TO AMCA STANDARD 210-85.

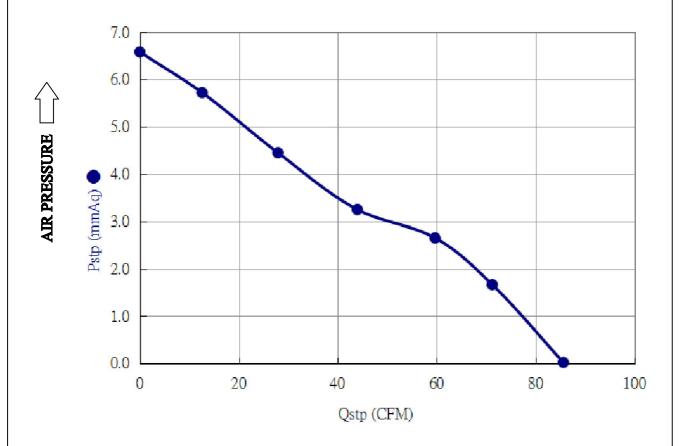
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3. MECHANICAL		
3-1. DIMENSION —	—— SEE DIMENSION DRAWING	
3-2. FRAME —	THERMOPLASTIC PBT OF UL 94V-0	
3-3. FAN BLADE	THERMOPLASTIC PBT OF UL 94V-0	
3-4. BEARING SYSTEM —	— TWO BALL BEARINGS	
3-5. WEIGHT	—— 175g	
4. ENVIRONMENTAL		
4-1. OPERATING TEMPERATURE		
4-2. STORAGE TEMPERATURE —————	—— -40 TO +70 ℃	
4-3. OPERATING HUMIDITY —	5 TO 90 % RH	
4-4. STORAGE HUMIDITY —	— 5 TO 95 % RH	
4-5. DROP TEST IN MINIMUM PACKGING CONDITION FAN WITHSTAND EACH ONE DROP OF THREE FACES FROM 30cm DISTANCE HEIGHT ONTO 10mm THICKNESS OF WOODEN BOARD		
4-6. VIBRATION TEST SINEWAVE DISPLACEMENT AMPLITUDE: 0.75 mm (FREQUENCY RANGE: 10Hz - 55 Hz / 30 S LINEEAR SCANNING 120 CYCLE ENDURANCE TIMER PER AXIS: 2 HOUR ORIENTATION: X,Y,Z	EQUIVALENT 10G) EC. 55Hz - 10 Hz / 30 SEC.	
4-7. SHOCK TEST APPLY PEAK ACCELERATION 50 g AND PLUSES FOR 11MS (HALF SINE WAVE)	KEEP DURATION OF THE	
4-8. RoHS COMPLIANCE	SEE ROHS STANDARD	
5. PROTECTION		
5-1. LOCKED ROTOR PROTECTION IMPEDANCE OF MOTOR WINDING PROTECTION 72 HOURS OF LOCKED ROTOR CONDITIONS 73 HOURS OF LOCKED ROTOR CONDITIONS 74 HOURS OF LOCKED ROTOR CONDITIONS 75 HOURS OF LOCKED ROTOR CONDITIONS 76 HOURS OF LOCKED ROTOR CONDITIONS 77 HOURS OF LOCKED ROTOR CONDITIONS 78 HOURS OF LOCKED ROTOR CONDITIONS 79 HOURS OF LOCKED ROTOR CONDITIONS 70 HOURS OF LOCKED ROTOR CONDITIONS 71 HOURS OF LOCKED ROTOR CONDITIONS 72 HOURS OF LOCKED ROTOR CONDITIONS 75 HOURS OF LOCKED ROTOR CONDITIONS 76 HOURS OF LOCKED ROTOR CONDITIONS 77 HOURS OF LOCKED ROTOR CONDITIONS 78 HOURS OF LOCKED ROTOR CONDITIONS 79 HOURS OF LOCKED ROTOR CONDITIONS 71 HOURS OF LOCKED ROTOR CONDITIONS 71 HOURS OF LOCKED ROTOR CONDITIONS 72 HOURS OF LOCKED ROTOR CONDITIONS 75 HOURS OF LOCKED ROTOR CONDITIONS 76 HOURS OF LOCKED ROTOR CONDITIONS 77 HOURS OF LOCKED ROTOR CONDITIONS 77 HOURS OF LOCKED ROTOR CONDITIONS 78 HOURS OF LOCKE	TECTS MOTOR FROM DAMAGE IN	
5-2. POLARITY PROTECTION — BE CAPABLE OF WITHSTANDING IF RE POSITIVE AND NEGATIVE LEADS	VERSE CONNECTION FOR	

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6. P & Q CURVE



AIR FLOW (

* TEST CONDITION:

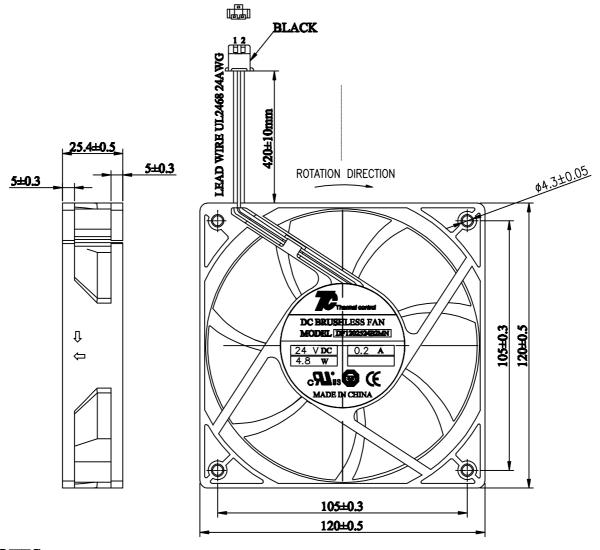
INPUT VOLTAGE — OPERATION VOLTAGE TEMPERATURE ROOM TEMPERATURE HUMIDITY — 65%RH

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7. DIMENSION DRAWING



NOTES:

1. LEAD WIRES: 2468 AWG 24

PIN1: BLACK WIRE (-)
PIN2: RED WIRE (+)

2. CONNECTOR:

Houxing: JWT A2512H00-2P OR WSTP2-125036 OR EQUIVALENT

Terminal: JWT A2501TOP-2 OR 125002PS-2

Terminal over 850 hot wires