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| Customer: | Rev. 01 |
| Item: Brushless DC Blower | Page 1 of 5 |
| Model: B1232H24B-BSR-IM4 | Issue Date: |

SPECIFICATIONS FOR APPROVAL

Mechatronics is pleased to submit the following specifications for review. If these specifications are for a final approval, please sign, date, and return to:

FAX (425) 222-5155

TEL (425) 222-5900

| | |
|--------------------------|-----------------------------|
| Customer Approval | Authorized Signature |
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BRUSHLESS DC FAN SPECIFICATIONS

1. SCOPE

This specification applies to model: **B1232H24B-BSR-IM4**

2. STANDARD ENVIRONMENTAL CONDITIONS

Temperature 25°C and relative humidity 60%.

Operating temperature range and acceptable environment: 5 - 35°C and relative humidity 45 – 85%.

3. STRUCTURE AND FORM

| | | |
|-----|-----------|-------------------------|
| 3-1 | Structure | Brushless DC fan motor |
| 3-2 | External | As per attached drawing |
| 3-3 | Housing | PBT UL94-VO |
| 3-4 | Impeller | PBT UL94-VO |
| 3-5 | Weight | 320g |
| 3-6 | Bearing | 2 Ball Bearing |

4. RATING AND OPERATING CONDITIONS

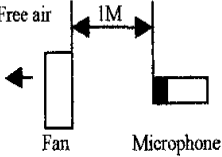
| | | |
|-----|-----------------------|----------------|
| 4-1 | Rated voltage | DC 24 |
| 4-2 | Rated current | DC 480 mA |
| 4-3 | Rated input | 11.52 W |
| 4-4 | Operating voltage | 15 – 26.5 VDC |
| 4-5 | Operating temperature | -10°C to +70°C |
| 4-6 | Storage temperature | -40°C to +70°C |
| 4-7 | Speed | 2,800 RPM |

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5. AIR FLOW, AIR PRESSURE CHARACTERISTICS

| Item | Condition | Test Result |
|---|------------------|------------------------|
| 5-1 Air flow | Air pressure = 0 | 28 CFM |
| 5-2 Air pressure | Air flow = 0 | 0.68 in of water |
| 5-3 Air flow/Air pressure characteristics | | See performance curves |

6. PERFORMANCE

| | Item | Condition | Test Result/ Standard |
|-----|---|---|-------------------------------|
| 6-1 | Noise  | As measured in a sound isolated room; background noise 20 dB or less; microphone distance 1 m from intake side of fan. | 49 dBA |
| 6-2 | Insulation resistance | Measured between frame and (+) lead wire or terminal when measured with insulation resistance meter with dc 250v applied. | Min. 10 Megohm |
| 6-3 | Dielectric voltage | AC 500 v applied for one minute. | Shall be free of abnormality. |

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7. Special Test

| | | | |
|-----|----------------------|---|---|
| 7-1 | Vibration resistance | 5-30Hz, 0.04 peak-to-peak amplitude, 30-500Hz, 2g peak amplitude for 5 minutes to all three axes | Fan(s) meet performance standards |
| 7-2 | Shock resistance | 60g, 11 millisecond (1/2 sine), twice to all three axes | Fan(s) meet performance standards |
| 7-3 | Durability | Expected mean endurance time until revolutions drop by 30% from the initial value - when run continuously within rated environmental conditions | +60,000 hours at 40°C; 45-85% relative humidity |
| 7-4 | Rotor Resistance | With rotor restricted and at rated voltage for 72 hours | Shall have no damage |

8. Other

| | | |
|-----|--------------------|---|
| 8-1 | Terminal | (+) terminal – red lead wire (-) terminal – blue lead wire |
| 8-2 | Rotating direction | Marked on housing |
| 8-3 | Air flow direction | Marked on housing |
| 8-4 | Appearance | Shall be free of defects |
| 8-5 | Mounting hole | See drawing |
| 8-6 | Lot marking | Date code stamped on label or frame |
| 8-7 | Options | M4 nuts adjacent to exhaust |

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