

## Standards and Specifications of Model: FD1751B24W5-52

### A. General Specification

| Item                                | Specification / Standard / Condition                                                                             |                                                                                                             |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Outline Dimension                   | 172 mm x 150 mm x 51 mm                                                                                          |                                                                                                             |
| Bearing                             | Dual Ball Bearing                                                                                                |                                                                                                             |
| Rated Voltage                       | DC 24 V                                                                                                          | Tolerance: $\pm 10\%$                                                                                       |
| Starting Voltage                    | DC 12 V                                                                                                          | 1. Rated Voltage<br>2. 25°C, 65% RH                                                                         |
| Rated Current                       | 0.44 A                                                                                                           |                                                                                                             |
| Power Consumption                   | 11.90 W                                                                                                          |                                                                                                             |
| Speed                               | 2,600 R.P.M.                                                                                                     | 1. Free Air<br>2. Rated Voltage<br>3. 25°C, 65% RH<br>4. Tolerance: $\pm 10\%$                              |
| Maximum Airflow                     | 175.0 CFM                                                                                                        | 1. Rated Voltage<br>2. AMCA Standard<br>3. Rated Current                                                    |
| Maximum Static Pressure             | 11.90 mm-H <sub>2</sub> O                                                                                        |                                                                                                             |
| Noise Level                         | 48.00 dB (A)                                                                                                     | 1. Rated Voltage<br>2. Measured in a Non-Echo Chamber<br>3. CNS 8753 Standard<br>4. ISO 3744 Test Condition |
| Life                                | 70,000 hrs 25°C                                                                                                  | MTTF (Mean Time to Failure Conf. Level 90%)                                                                 |
| Number of Blade                     | 5 Blades                                                                                                         |                                                                                                             |
| Number of Pole                      | 4 Poles                                                                                                          |                                                                                                             |
| Rotating Direction                  | Counter-Clockwise                                                                                                |                                                                                                             |
| Material:<br>Blade, Housing, Bobbin | <ul style="list-style-type: none"><li>Housing: Die-cast Aluminum</li><li>Blade: Plastic UL 94-O P.B.T.</li></ul> |                                                                                                             |
| Lead Wire                           | UL 1007, 22 AWG                                                                                                  | Red: (+) Black: (-)                                                                                         |
| Connector                           |                                                                                                                  |                                                                                                             |

### B. Electrical Specification

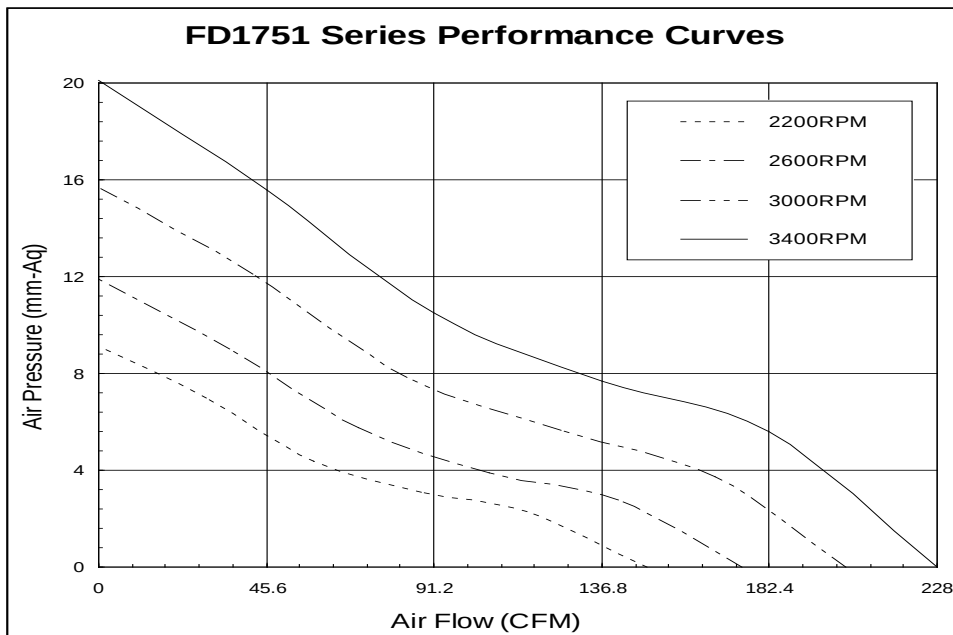
| Item                    | Specification / Condition                                                |
|-------------------------|--------------------------------------------------------------------------|
| Locked Rotor Protection | No damage done for a continuous 72 hours rotation lock at rated voltage. |
| Polarity Protection     | Circuit is protected when V <sub>CC</sub> & GND are exchanged.           |
| Insulation Resistance   | 10 m.Ohm / between unshielded wire and frame at 500 VDC/min.             |
| Dielectric Strength     | 5 mA Maximum. / Measured between lead wire + and frame at 500 VAC/min.   |

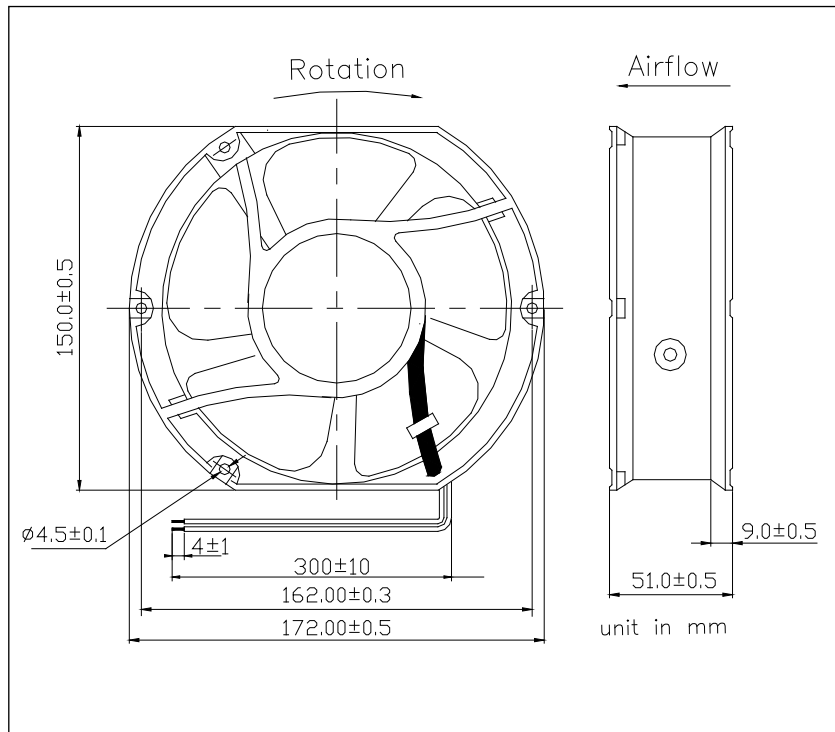
**C. Environmental Specification**

| Item                     | Specification / Condition                                                                 |
|--------------------------|-------------------------------------------------------------------------------------------|
| Operating Condition      | Temperature: -10°C ~ + 70°C<br>Humidity: 35% ~ 85% RH                                     |
| Storage Temperature      | Temperature: -10°C ~ + 70°C<br>Humidity: 35% ~ 85% RH                                     |
| Humidity                 | Per MIL-STD-202F Method 103B<br>Life: 96 hours<br>Humidity: 95%<br>Temperature: +40 ± 2°C |
| Thermal Shock            | Per MIL-STD-202F Method 107D, Condition D                                                 |
| Packing Vibration Test   | Packing condition: X, Y, Z 3 directions, 1.1G load vibration test for 30 min.             |
| Packing Shock Proof Test | 1 corner, 3 edges, 6 faces natural drop from 60cm high, packed                            |

**D. Safety Approvals**

| Safety Approval | File No.  |
|-----------------|-----------|
| UL              | E194726   |
| CUL             | E194726   |
| TUV             | R50048194 |

**E. Air Flow Performance Curves**

**F. Model Drawing****G. Fan Photos****FD1751-52**