

Standards and Specifications
of
Model: FD8025B12W3-68-2NU
(With IP21)

A. General Specification

| Item | Specification / Standard / Condition | |
|---|---|---|
| Outline Dimension | 80 mm x 80 mm x 25 mm | |
| Bearing | Dual Ball Bearing. | |
| Rated Voltage | DC 12V | |
| Operating Voltage | DC8.00V ~ DC 13.80V | |
| Starting Voltage | DC8.00V | 1. Rated Voltage 2. 25°C, 65% RH |
| Rated Current | 0.08A | |
| Power Consumption | 0.96W | |
| Speed | 1500 R.P.M. | 1. Free Air 2. Rated Voltage 3. 25°C, 65% RH 4. Tolerance: ± 10% |
| Maximum Airflow | 18.80CFM | 1. Rated Voltage 2. AMCA Standard 3. Rated Current |
| Maximum Static Pressure | 0.91mm-H ₂ O | |
| Noise Level | 15.10 dB (A) | 1. Rated Voltage 2. Measured in a Non-Echo Chamber 3. CNS 8753 Standard 4. ISO 3744 Test Condition |
| Life | 60,000 hrs | 40°C, L10 at Conf. Level 90%, Rated Voltage |
| Net Weight | 68g | |
| Number of Blade | 7 Blades | |
| Number of Pole | 4 Poles | |
| Rotating Direction | Counter-Clockwise | |
| Plastic Material: Blade, Housing, Bobbin | 1. UL 94V-0 2. P.B.T. + 30% GF Black | |
| Lead Wire | UL 1007, 26AWG | Red: (+) Black: (-) |
| Connector | With AMP 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 _{CC} & GND are exchanged. |
| Insulation Resistance | 10m.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

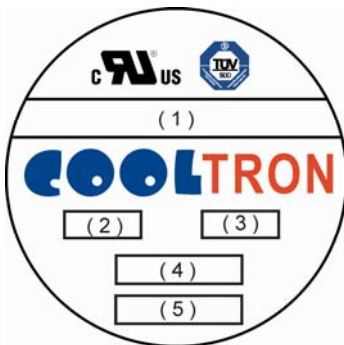
| Item | Specification / Condition |
|--------------------------|---|
| Operating Condition | Temperature: -10°C ~ + 65°C Humidity: 35% ~ 85% RH |
| Storage Temperature | Temperature: -40°C ~ +70°C Humidity: 35% ~ 85% RH |
| Humidity | Per MIL-STD-202F Method 103B Life: 96 hours Temperature: +40 ± 2°C |
| 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



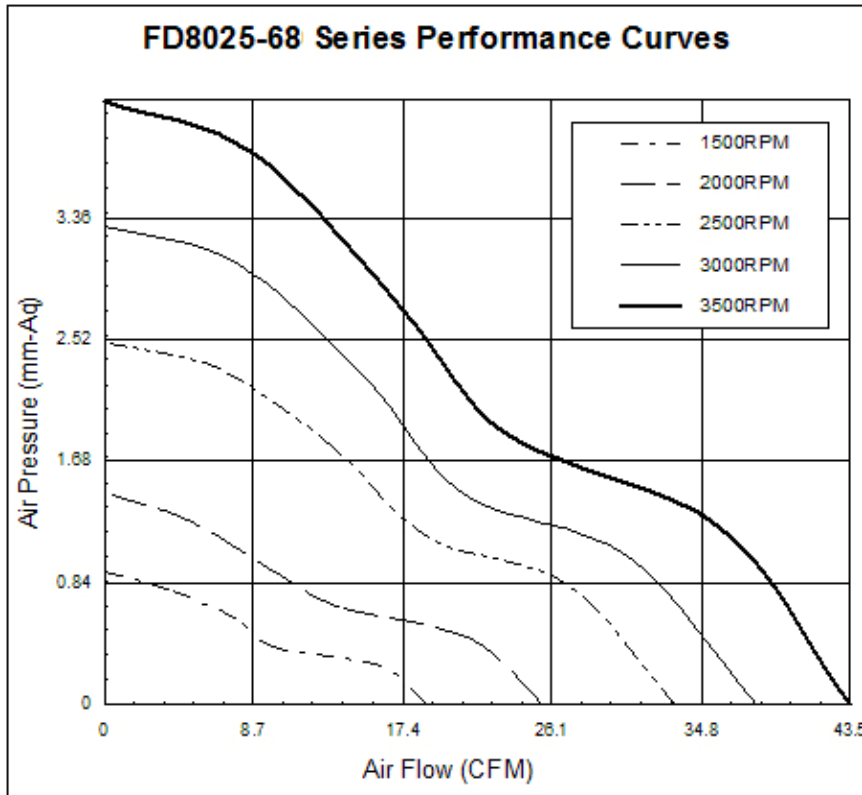
| Safety Approval | File No. |
|-----------------|-----------|
| UL | E194726 |
| CUL | E194726 |
| TUV | R50048194 |

E. Label Marking



| | |
|-----|-------------------|
| (1) | Model Number |
| (2) | Rated Voltage |
| (3) | Power Consumption |
| (4) | Bearing Type |
| (5) | Location |

F. Air Flow Performance Curve



G. Model Drawing

