

ACTIVA INC.

PRODUCT SPECIFICATION

A. General Specification

| Item | | Specification | Condition |
|------|----------------------|--------------------------------|--|
| 1 | Model No. | D4028V12SB-J | |
| 2 | Outline Dimension | 40x40x28 mm | |
| 3 | Rated Voltage | DC 12V | |
| 4 | Starting Voltage | DC 6.0V | |
| 5 | Rated Current | 0.69A | At Rated Voltage, 25°C, 65% RH |
| 6 | Power Consumption | 8.28W | At Rated Voltage, 25°C, 65% RH |
| 7 | Speed | 16000 RPM \pm 10% | At Rated Voltage, 25°C, 65% RH Free Air |
| 8 | Max. Airflow | 23.3 CFM | At Rated Voltage AMCA Standard |
| 9 | Max. Static Pressure | 33.50 mmAq | At Rated Current |
| 10 | Noise Level | 53.00 dBA | At Rated Voltage Measured in a non-echo Chamber CNS 8753 Standard ISO 3744 Test Condition |
| 11 | Life | 50,000/hrs at 25°C | MTBF (Mean Time Between Failures) Conf. Level 90% |
| 12 | No. of Blade | 5 Blades | |
| 13 | No. of Pole | 4 Poles | |
| 14 | Rotating Direction | Clockwise View From Label Side | |
| 15 | Tolerance | \pm 10% | At Rated Voltage |
| 16 | Weight | 46g | |
| 17 | Motor Type | DC Brushless Fan Motor | |
| 18. | Operating Voltage | DC 8.0V ~ 13.8V | |

B. Main Materials / Parts Specification

| Materials / Parts | | Specification |
|-------------------|---|--|
| 1 | Plastic Material / Blade, Housing, Bobbin | UL 94V-0, P.B.T. + 30% GF Black |
| 2 | Bearing | Ball Bearing |
| 3 | Lead Wire | UL 1007, 28 AWG, (+) RED, (-) BLACK UL 1007, 28 AWG, (FG signal) YELLOW |
| 4 | Connector | |

C. Safety Approvals :

| Safety Approvals | File No. | Safety Approvals | File No. |
|------------------|----------|------------------|----------|
| CE | | | |

ACTIVA INC.**D. Environmental Specification**

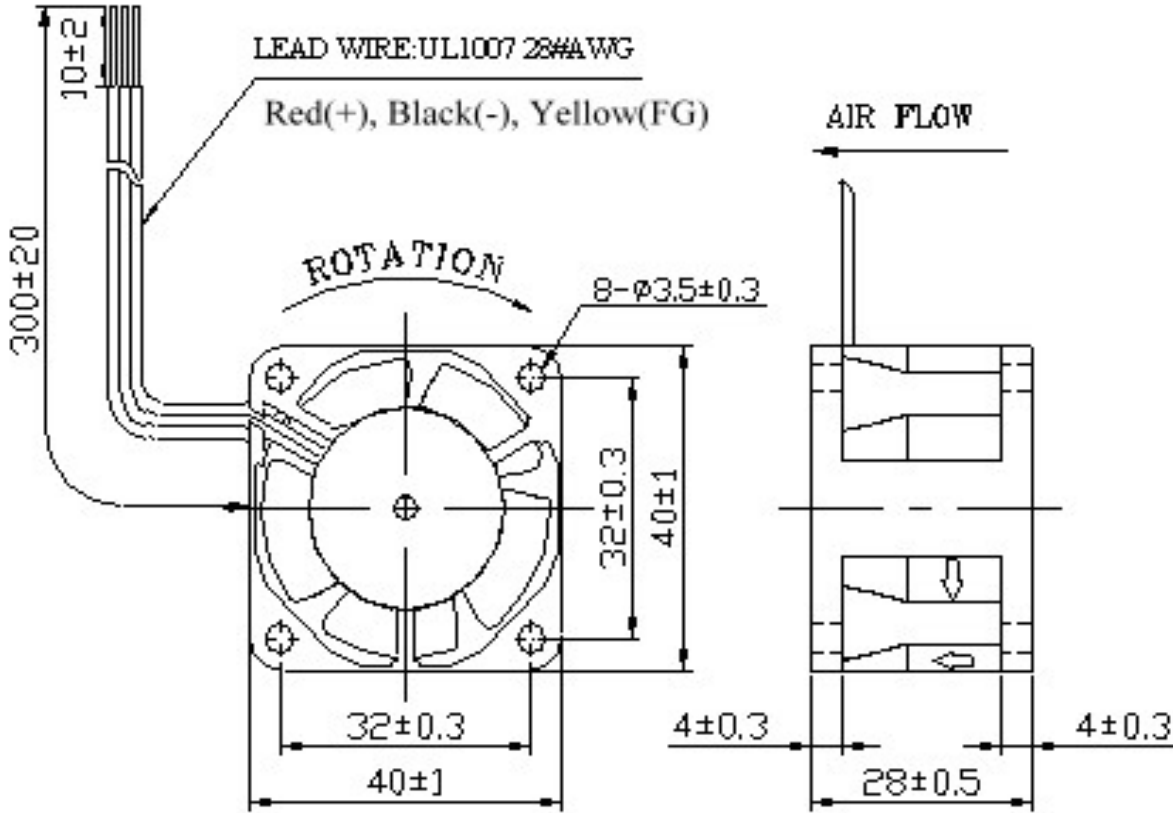
| Item | | Specification / Condition |
|-------------|--------------------------|---|
| 1 | Operating Temp. Range | Temperature : -10°C ~ + 70°C Humidity : 35% - 85% RH |
| 2 | Storage Temperature | Temperature : -10°C ~+ 70°C Humidity : 35% - 85% RH |
| 3 | Humidity | Per MIL-STD 202F Method 103B; Life: 96 hours; Humidity : 95% RH; Temperature: 40 ± 2°C |
| 4 | Thermal Shock | Per MIL-STD 202F Method 107D, Condition D |
| 5 | Insulation Shock | UL: Class B |
| 6 | Packing Vibration Test | Packing Condition: X, Y, Z 3directions, 1.1 G load vibration test for 30 min. |
| 7 | Packing Shock Proof Test | 1 corner, 3 edges, 6 faces natural drop from 60 cm high packing |

E. Electrical Specification

| Item | | Specification/Condition |
|-------------|-------------------------|--|
| 1 | Insulation Resistance | 10MΩ between frame and unshielded wire at 500VDC/min |
| 2 | Dielectric Strength | 5mA Max. / Measured b/w lead wire (+) and frame at 500VAC/min |
| 3 | Locker Rotor Protection | a. No damage will be made for a continuous 72-hour rotation lock at rated voltage. b. Signal Alarm-Optional |
| 4 | Polarity Protection | Circuit is protected when Vcc & GND are exchanged. |

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F. Outline Dimension UNIT: mm



G. Air Performance

