

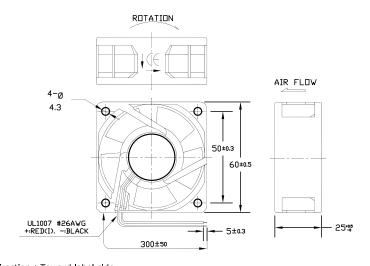
ALL RIGHTS RESERVED. NO PORTION OF THIS PUBLICATION, WHETHER IN WHOLE OR IN PART CAN BE REPRODUCED WITHOUT THE EXPRESS WRITTEN CONSENT OF SPC TECHNOLOGY.

SPC-F005.DWG

|                             |                                      | REVISIONS | DOC. NO  | 1. SPC-F005 | * Effe   | ctive: 7/8/ | 02 * DI  | CP No: 1398 |
|-----------------------------|--------------------------------------|-----------|----------|-------------|----------|-------------|----------|-------------|
| DCP #                       | DCP # REV DESCRIPTION  XX A RELEASED |           | DRAWN    | DATE        | CHECKD   | DATE        | APPR∨I   | DATE        |
| XX                          |                                      |           | LG       | 12-08-08    | LG       | 12-08-08    | LG       | 12-08-08    |
| 2067 B Listing Info Updated |                                      | JN        | 08-25-09 | JN          | 08-25-09 | JN          | 08-25-09 |             |

## MATERIAL

Thermoplastic PBT of UL 94V-0 2-1. Frame 2-2. Impeller Thermoplastic PBT of UL 94V-0 Thermoplastic PBT of UL 94V-0 2-3. Bobbin 2-4. Lead Wire UL1007, 26 awg, +RED, -BLACK



- Air Flow Direction : Toward label side.
   Best Mounting Direction : Any orientation.

Units:mm



| DISCLAMER: ALL STATEMENTS AND TECHNICAL INFORMATION CONTAINED HEREIN ARE BASED UPON INFORMATION AND/OR TESTS WE BELIEVE TO BE ACCURATE AND RELIABLE. SINCE CONDITIONS OF USE ARE BEYOND OUR CONTROL, THE USER SHALL DETERMINE THE SUITABILITY OF THE PRODUCT EOR THE INSTRIPCT INSECTION. |
|---|
|   |
| FOR THE INTENDED USE AND ASSUME ALL RISK AND  |
| LIABILITY WHATSOEVER IN CONNECTION THEREWITH.   |

|  | TOLERANCES:   | DRAWN BY:    | DATE:    | DRAW          | 'ING TITLE: |                  |                     |      |             |     |     |  |
|--|---|--------------|----------|---------------|-------------|------------------|---------------------|------|-------------|-----|-----|--|
|  | UNLESS OTHERWISE  | LG           | 12-08-08 |               |             | DC BRUSHLESS FAN |                     |      |             |     |     |  |
|  | SPECIFIED,<br>DIMENSIONS ARE<br>FOR REFERENCE<br>PURPOSES ONLY. | CHECKED BY:  | DATE:    | SIZE DWG. NO. |             |                  |                     | ELEC | TRONIC FILE |     | REV |  |
|  |   | LG           | 12-08-08 | l a l         |             | MC23299          |                     |      | 75M2187     |     |     |  |
|  |   | APPROVED BY: | DATE:    |               |             |                  |                     |      |             |     |     |  |
|  |   | LG           | 12-08-08 | SCAL          | E: NTS      |                  | U.D.M.: INCHES [mm] |      | SHEET: 1    | OF_ | 4   |  |

## **CHARACTERISTICS**

1. Motor Design DC brushless 4 pole motor design.

2. Insulation Resistance More than 10M ohm between internal stator and

lead wire(+) measured at DC 500V.

Applied AC 500V for one minute or AC 600V for 2 seconds between housing and lead wire (+)  $\,$ 3. Dielectric Strength

4. Noise Level Measured in a semi-anechoic chamber

with background noise level below 15

dB(A). The fan is running in free air with the microphone at a distance of one meter from the fan intake.

5. Input Power, Current & Speed : Measured after continuous 10 minute

operation at rated voltage in clean air, and at ambient temperature of 25 degree C.

6. Tolerance ±15% on rated power and current.

7. Air Performance

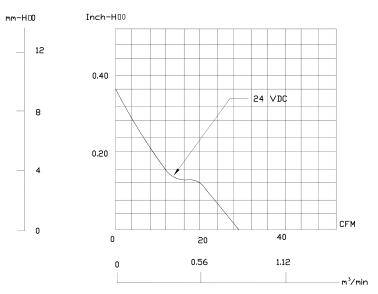
Measured by a double chamber. The values are recorded when the fan speed has stabilized at rated voltage.



| ALL RIGHTS RESERVED, NO PORTION OF THIS PUBL | SIZE   | DWG. N□. | )WG. N□. |                     |  | ELECTRONIC FILE |         |      |  |
|--|--|----------|----------|---------------------|--|-----------------|---------|------|--|
|  | E EXPRESS WRITTEN CONSENT OF SPC TECHNOLOGY.         |          |          | MC23299             |  |                 | 75M2187 |      |  |
| SPC-F005.DWG                                 | DDC. ND. SPC-F005 * Effective: 7/8/02 * DCP No: 1398 | SCALI    | E: NTS   | U.□.M.: Millimeters |  | SHEET:          | 2       | OF 4 |  |

## PERFORMANCE CURVES







| ALL RIGHTS RESERVED. NO PORTION OF THIS PUBLICATION, WHETHER IN WHOLE OR IN PART CAN BE REPRODUCT THE EXPRESS WRITTEN CONSENT OF SPC TECHNOLOGY. | CED WITHOUT  | SIZE  | DWG. NO. | 23299               | ELEC. | LECTRONIC FILE 75M2187 SHEFT: 3 DE |      |  |
|--|--------------|-------|----------|---------------------|-------|------------------------------------|------|--|
| SPC-F005.DWG   | DCP No: 1398 | SCALE | E: NTS   | U.□.M.: Millimeters |       | SHEET: 3                           | OF 4 |  |

## **SPECIFICATIONS**

1-1. Rated Voltage 24 VDC 1-2. Operating Voltage Range 10~27.6 VDC

1-3. Starting Voltage 10 VDC (25 deg. C PDWER DN/DFF)

1-4 Rated Speed 5600 RPM ± 15%

1-5. Air Delivery 29.0 CFM 1-6. Static Pressure 0.36 Inch-H<sub>0</sub>0

1-7. Rated Current 104 mA 2.5 WATTS 1-8. Rated Power 38.0 dB(A) 1–9. Noise Level

1-10. Direction of Rotation Counter-clockwise viewed front of fan blade

1-11. Operating Temperature -10 to +70 deg. C 1-12. Storage Temperature -40 to +70 deg. C

1-13. Bearing System Precision ball bearing system

1-14. Weight 75g

1-15. Safety UL/CUR Approvals

1-16. Vibration

Vibration of acceleration 1.5G and frequency 5~50~5Hz is applied in all 3 directions(X,Y,Z), in cycles of 1 minute each, for a total vibration time of 30 minutes.

1-17. Locked Rotor Protection

Automatic Restart Capacity Note: In a situation where the fan is locked by a external  $% \left( 1\right) =\left( 1\right) +\left( 1$ force while the electricity is on, an increase in coil temperature will be prevented by temporarily turning off the electrical power to the motor. The fan will automatically restart when the locked rotor condition is

released.



| ALL RIGHTS RESERVED. NO PORTION OF THIS PUBLICATION, WHETHER IN WHOLE OR IN PART CAN BE REPRODUCED WITHOUT THE EXPRESS WRITTEN CONSENT OF SPC TECHNOLOGY. |  | SIZE  | DWG. ND. MC23299 |                     |  | TRONIC FILE | RE∨ |     |
|---|--|-------|------------------|---------------------|--|-------------|-----|-----|
| SPC-F005.DWG  | DDC. ND. SPC-F005 * Effective: 7/8/02 * DCP No: 1398 | SCALE | E: NTS           | U.□.M.: Millimeters |  | SHEET:      | 4 🗆 | F 4 |