

|          |             |          |         |                                                                                                                                                                                   |      |                 |                |                 |
|----------|-------------|----------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------|----------------|-----------------|
| CUSTOMER | NEWARK(MCM) | FILE NO. | 28-1740 | THIS DRAWING AND SPECIFICATIONS, HEREIN ARE THE CONFIDENTIAL PROPERTY OF SAMAR AND SHALL NOT BE REPRODUCED OR COPIED OR DISCLOSED IN WHOLE OR IN PART WITHOUT WRITTEN PERMISSION. | REV. | DESCRIPTION     | DRAWN / DATE   | APPROVED / DATE |
|          |             |          |         |                                                                                                                                                                                   | 0    | INITIAL RELEASE | LIN 03/22/2019 | LISA 03/22/2019 |

## SPECIFICATION

### 1 - ELECTRICAL CHARACTERISTICS :

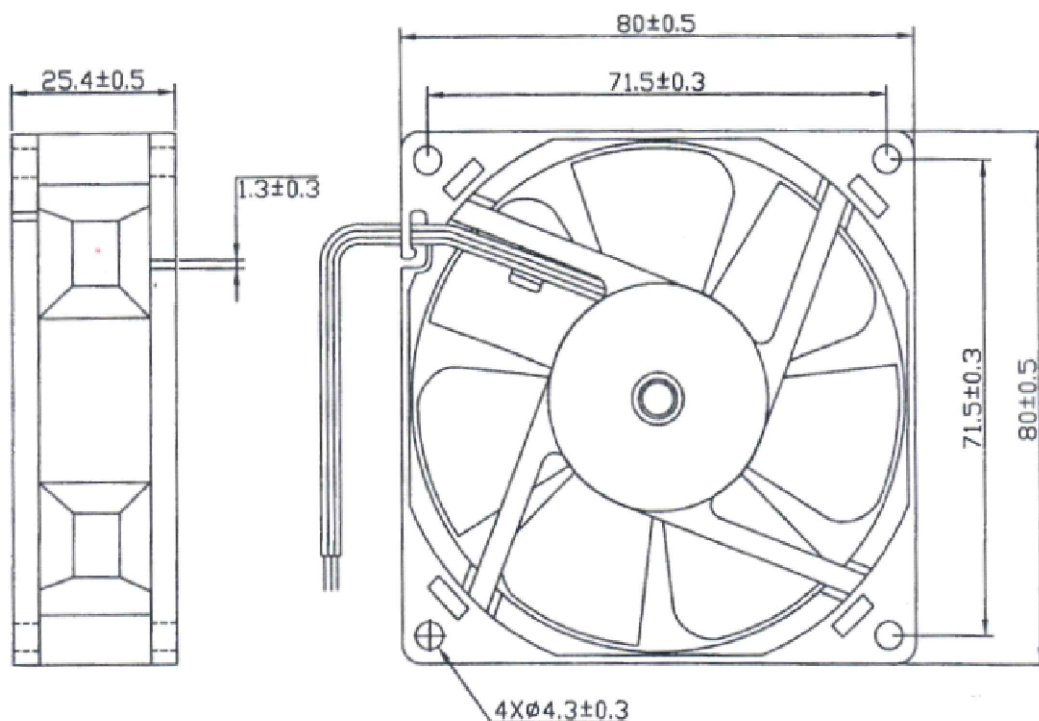
ALL MEASUREMENTS PERFORMED AT 20-30°C ROOM TEMPERATURE & 50-70% R.H. UNLESS OTHERWISE SPECIFIED. SPEED MEASURED AFTER CONTINUOUS 10 MINUTE OPERATION AT RATED VOLTAGE IN CLEAN AIR.

| ITEM | DESCRIPTION            | UNIT                         | SYMBOL           | SPEC.                                        | CONDITION                                        |
|------|------------------------|------------------------------|------------------|----------------------------------------------|--------------------------------------------------|
| 1    | RATED VOLTAGE          | VOLTS                        | V                | 12                                           |                                                  |
| 2    | OPERATION VOLTAGE      | VOLTS                        | V                | 10.2~13.8                                    |                                                  |
| 3    | INPUT CURRENT          | AMP                          | A                | 0.12MAX                                      | AT RATED VOLTAGE                                 |
| 4    | INPUT POWER            | WATTS                        | W                | 1.44MAX                                      | AT RATED VOLTAGE                                 |
| 5    | ROTATION SPEED         | RPM                          | RPM              | 2200±10%                                     | AT RATED VOLTAGE<br>FREE AIR                     |
| 6    | ACOUSTICAL NOISE (AVG) | dB(A)                        | dB(A)            | 27.92±10%                                    | DETAILS SEE ATTACHED PAGE                        |
| 7    | MAX. AIR-FLOW          | CFM                          | Q                | 25.98±10%                                    | TWO-CHAMBER METHODS<br>DETAILS SEE ATTACHED PAGE |
| 8    | MAX. AIR-PRESSURE      | mmH <sub>2</sub> O           | P                | 2.01±10%                                     | TWO-CHAMBER METHODS<br>DETAILS SEE ATTACHED PAGE |
| 9    | STARTING VOLTAGE       | VOLTS                        | V                | 7                                            | AT RATED VOLTAGE                                 |
| 10   | INSULATION RESISTANCE  | MEG OHM                      | MΩ               | 10MΩ MIN.<br>AT 500V DC                      | BETWEEN FRAME AND<br>(+)LEAD WIRE.               |
| 11   | DIELECTRIC STRENGTH    | MILLI-AMP                    | mA               | 5mA MAX.<br>AT 500V AC 60Hz.<br>FOR 1 MINUTE | BETWEEN FRAME AND<br>(+)LEAD WIRE.               |
| 12   | ROTATION               | CW VIEW FROM NAME PLATE SIDE |                  |                                              |                                                  |
| 13   | AIR-FLOW DIRECTION     | AIR INTAKE OVER THE STRUTS   |                  |                                              |                                                  |
| 14   | INSULATION RANK        | UL : CLASS A                 |                  |                                              |                                                  |
| 15   | LIFE EXPECTANCY        | 50000                        | HOURS CONTINUOUS |                                              | ☆                                                |

☆ LIFE IS DEFINED AS THE TIME MOTOR SPEED DECREASED MORE THAN 30% COMPARED WITH INITIAL VALUE.

### 2 - MECHANICAL

- 3-1. DIMENSIONS----- SEE SECTION 8.  
3-2. FRAME ----- PLASTIC PBT UL : 94V-0 RATING + FIBRE GLASS.  
3-3. FAN BLADE----- PLASTIC PBT UL : 94V-0 RATING + FIBRE GLASS.  
3-4. BEARING SYSTEM ----- BALL BEARING  
3-5. WEIGHT----- 100 GRAMS  
3-6. LEAD WIRE----- 1007 AWG # 24  
+ POSITIVE.....RED  
- NEGATIVE.....BLUE



RoHS

|                             |                                          |          |  |             |         |       |     |       |            |
|-----------------------------|------------------------------------------|----------|--|-------------|---------|-------|-----|-------|------------|
| DIMENSIONS ARE IN mm [INCH] | TOLERANCES ARE FRACTIONS DECIMALS ANGLES | MATERIAL |  | P/N         | 28-1740 | DRAWN | LIN | DATE  | 03/22/2019 |
| MOLD NO.                    | .x ±0.2 [0.008]<br>.xx ±0.12 [0.005]     | FINISH   |  | PROJECT NO. |         |       |     |       |            |
|                             |                                          | COLOR    |  | SCALE       | N/A     | SIZE  | A4  | SHEET | 1 OF 1     |
|                             | 28-1740                                  |          |  |             |         |       |     |       | MT127      |

39C0485, DC fan w/ ball bearing