

Sofasco Inc.

PRODUCT SPECIFICATION

A. General Specification

| Item | | Specification | | Condition |
|------|-------------------------|--------------------------------|--|--|
| 1 | Model No. | A12038V1SBT-C | | |
| 2 | Outline Dimension | 120 x 120 x 38 mm | | |
| 3 | Rated Voltage | AC 115 | V | |
| 4 | Operating Voltage Range | AC 85 - 125 | V | |
| 5 | Start Voltage | AC 85 | V | |
| 6 | Frequency | 50/60 | Hz | |
| 7 | Rated Current | 0.25/0.22 | A | At Rated Voltage, 25°C, 65% RH, Free Air |
| 8 | Power Consumption | 20/19 | W | |
| 9 | Rotating Speed | 2400/2700 | RPM ±10% | At Rated Voltage, 25°C, 65% RH, Free Air |
| 10 | Max. Airflow | 107/110 3.02/3.11 | CFM m ³ /min | At Rated Voltage AMCA 210 Standard At Rated Current |
| 11 | Max. Static Pressure | 6.6/5.53 0.25/0.21 | mmH ₂ O inchH ₂ O | |
| 12 | Noise Level | 40/45 | dB(A) | At Rated Voltage Measured in a non-echo Chamber CNS 8753 Standard ISO 3744 Test Condition |
| 13 | Life | 50,000hrs | at 25°C | MTTF (Mean Time To Failures) at Confidence. Level 90% |
| 14 | No. of Blade | 7 | Blades | |
| 15 | No. of Pole | 2 | Poles | |
| 16 | Rotating Direction | Clockwise View From Label Side | | |
| 17 | Weight | 550 | g | |
| 18 | Motor Type | Shaded Pole Motor | | |
| 19 | Safety | Impedance Protected | | |

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B. Main Materials / Parts Specification

| Materials / Parts | | Specification |
|-------------------|-------------|-------------------------------------|
| 1 | Housing | Aluminum Die Casting, Painted Black |
| 2 | Blade | Thermoplastic PBT, UL94V-0 |
| 3 | Bearing | Ball Bearings |
| 4 | Termination | Terminals |
| 5 | Connector | N/A |

C. Safety Approvals

| Safety Approvals | UL | TUV | |
|------------------|---------|-----|--|
| File Number | E196756 | N/A | |

D. Environmental Specification

| Item | | Specification / Condition |
|------|-----------------------|--|
| 1 | Operating Temp. Range | Temperature : -10°C ~ + 70°C |
| 2 | Storage Temperature | All function shall be normal after 500 hours storage at -40°C to +70°C with a 24 hours recovery period at room temperature. |
| 3 | Humidity Test | After 96 hours, 95% RH, 40+/-2°C per MIL-STD-202F, method 103B humidity test, the measured data on insulation resistance and dielectric strength shall meet the specification. |
| 4 | Thermal Shock | Per MIL-STD 202F Method 107D, Condition D |
| 5 | Insulation Shock | Class A |

E. Electrical Specification

| Item | | Specification/Condition |
|------|-----------------------|---|
| 1 | Insulation Resistance | Minimum 10MΩ Between frame and AC lead wire / terminal at 500VDC for 60 seconds |
| 2 | Dielectric Strength | Maximum leakage 5mA between frame and AC lead wire / terminal at 1.2KVAC for 1 seconds. |