

# SPECIFICATIONS

(RoHS Compliant)



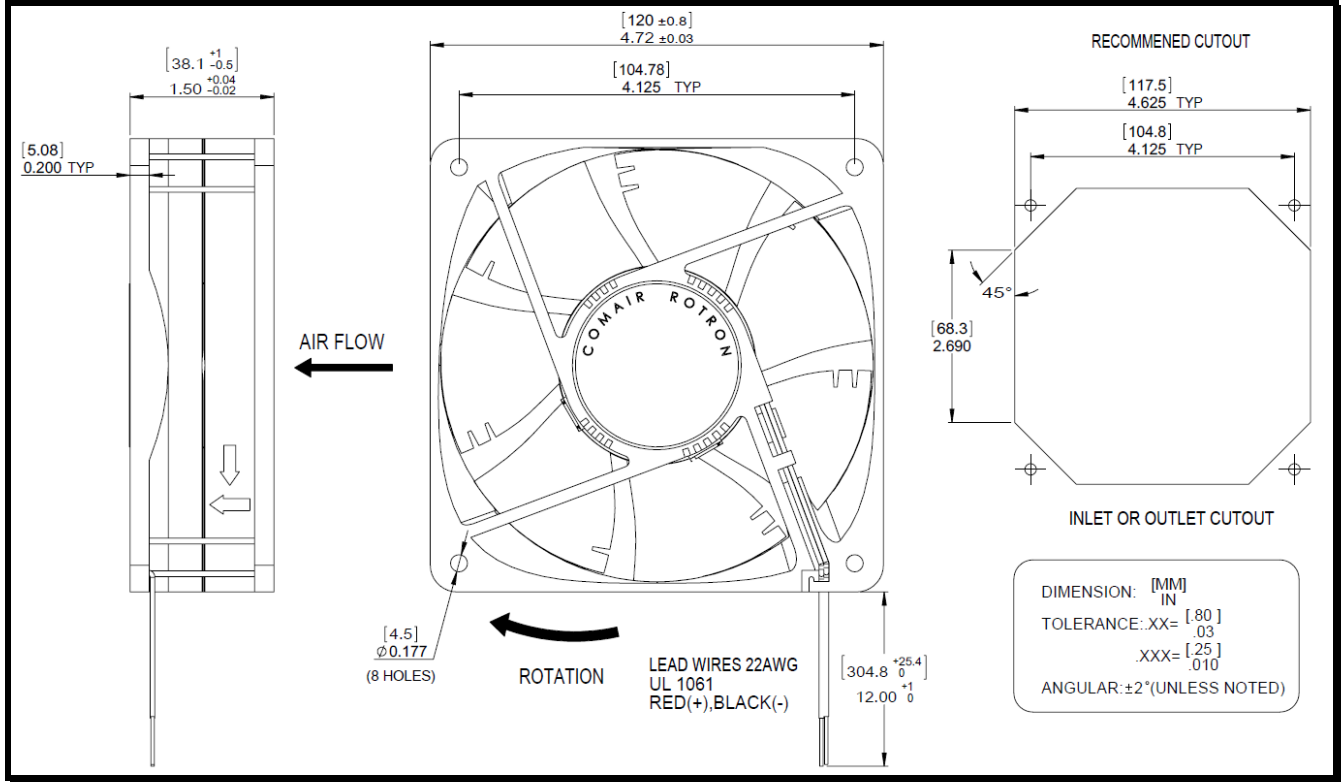
**Model Number:** MSD12B3E2X-E3

**Version:** 00

**Part Number:** 17001156A

**Jun 12, 2018**

## Mechanical Drawing:



### Motor:

Nominal Voltage	= 12 vdc
Operating Voltage Range	= 8 - 16 vdc
Nominal Running Current	= 0.58 amps
Max. Locked Rotor Current	= 1.45 amps
Running Power	= 7.0 watts
Average Speed	= 3000 RPM
Bearings	= Ball
Air Flow	= 110 CFM
Acoustic	= 49.1 dBA

### Construction:

Venturi: Plastic, Black, UL 94V-0  
Propeller: Plastic, Black, UL 94V-0

### Life Expectancy:

This fan is designed for continuous duty life of 45,000 hours at 70°C.

### Termination:

12"±1" (304.8±25.4mm) 22AWG UL1061 Leadwires  
Red = Power(+)  
Black = Return(-)  
Blue/White = Tach output  
Yellow = PWM control

### Additional Features:

Brushless DC Motor  
Automatic Restart Capability  
Electronic Locked Rotor Protection  
Polarity Protected  
Operating Temperature: -10°C to 70°C  
Storage Temperature: -40°C to 85°C  
Environmental Protection: Type 3(IP68)

### TACHOMETER:

Output: Open Collector  
Ic: 20 mA max.  
Vcc: 32 Vdc max.  
Pulses per Revolution: 2  
Isolated: No

### Speed Control:

PWM: 200 ~ 2 KHz, Open Collector  
<10% Duty: Off  
10%~95% Duty: Linear Ramp  
>95% Duty or Open Lead Wire: Full Speed

### Agencies:

UL, CUL, CE

PQ Curve:

