

MDE Series

Long-Life Models

□ 4.69 in.×1.00 in. thick
 (□ 119 mm×25.4 mm thick)



Ambient Temperature: 14°F to 140°F (–10°C to +60°C)
 Operating Voltage Range: ±15%

Materials

Frame: Die Cast Aluminum
 Blades: Resin
 Flammability Grade: V-0
 Overheat Protection: Built-in Overheat Protection Circuit
 Bearings: Ball Bearings

100,000 hour life expectancy lowers maintenance costs and reduces downtime. More than 90% of fans satisfy the following criteria when operating at an ambient temperature of 140°F (60°C) :

- Rotation Speed (at rated voltage) Less than 30% below rated speed
- Input Current (at rated speed) Less than 30% above rated current

Using these fans at a temperature of 95°F (35°C) or more and relative humidity of 25% or more may reduce their life expectancy.

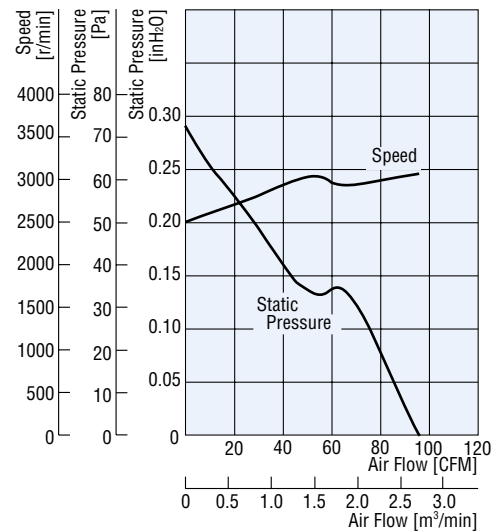
Specifications



| Speed Type | Model | Voltage VDC | Current A | Speed r/min | Max. Air Flow CFM | Max. Air Flow m ³ /min | Max. Static Pressure inH ₂ O | Max. Static Pressure Pa | Noise Level dB(A) | |
|----------------|------------------------------------|--------------------|-----------|-------------|-------------------|-----------------------------------|---|-------------------------|-------------------|----|
| Standard Speed | Stall Alarm, Electronic Alarm Type | MDE1225-12L | 12 | 0.58 | 3000 | 95.3 | 2.7 | 0.281 | 70 | 46 |
| | ① | MDE1225-24L | 24 | 0.30 | 3000 | 95.3 | 2.7 | 0.281 | 70 | 46 |

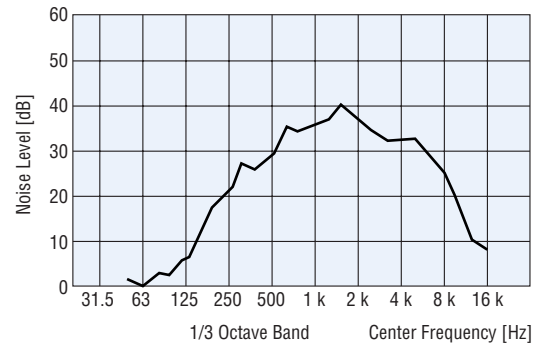
•How to read the specifications →Page E-13 •Alarm Specifications: ①→Page E-14 •Details of safety standards →Page G-2

Air Flow — Static Pressure Characteristics



Frequency — Audible Noise Level (dB)

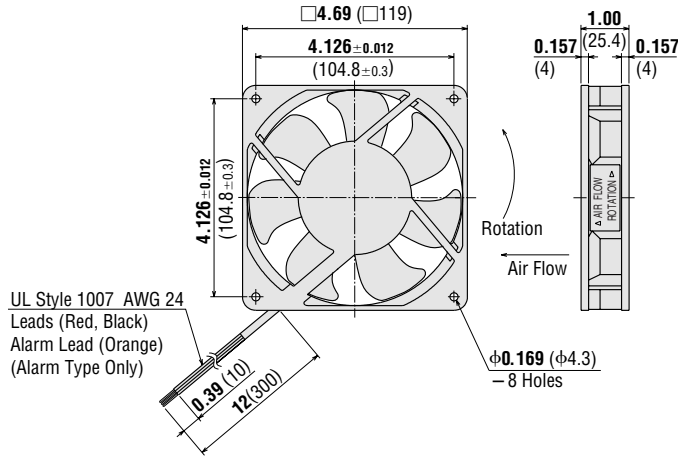
Measured at a distance of 3.3 feet (1 m) from the fan intake side



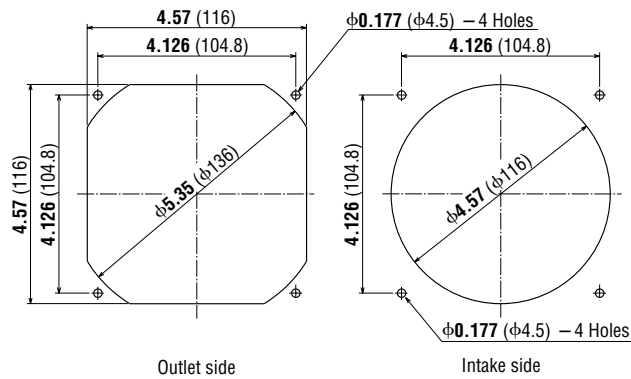
Dimensions Scale 1/4, Unit = inch (mm)

Weight: 0.66 lb. (0.3 kg)

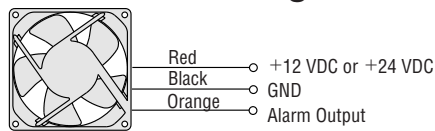
DXF E020



Panel Cut-Out Unit = inch (mm)



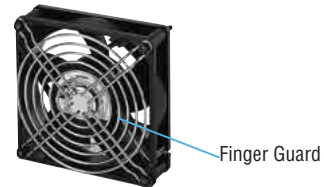
Connection Diagram



Accessories (Sold Separately)

| Item | Model | Safety Standards | Page |
|--------------|--------------|------------------|-------|
| Finger Guard | FG12D | * | E-102 |
| Filter | FL12 | — | E-106 |
| Screen | FS12 | — | E-107 |

* These products have been designed to pass tests set forth under the UL and CSA standards for equipment used in fans. They conform to the standards only when used with an **ORIX FAN**.



• A filter or screen can be installed in place of the finger guard.