

MBD Series

DC Centrifugal Blowers

Impeller Diameter

ϕ4.72 in. (ϕ120 mm)



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

Materials

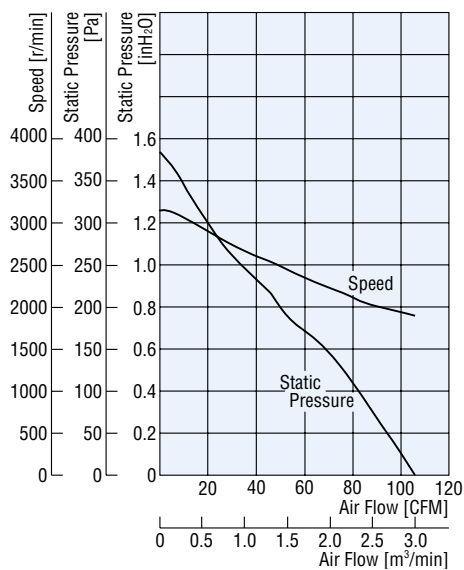
Motor Case: Die Cast Aluminum
Casing: Die Cast Aluminum
Impeller: Aluminum
Overheat Protection: Built-in Overheat Protection Circuit
Bearings: Ball Bearings

Specifications

Model	Rated Voltage VDC	Rated Current A	Rated Speed r/min	Max. Air Flow		Max. Static Pressure		Noise Level dB(A)
				CFM	m ³ /min	inH ₂ O	Pa	
MBD12-24	24	1.5	1900	106	3.0	1.49	372	58

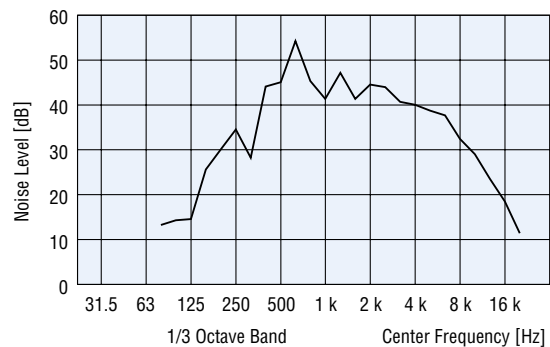
•How to read the specifications →Page E-13

Air Flow — Static Pressure Characteristics



Frequency — Audible Noise Level (dB)

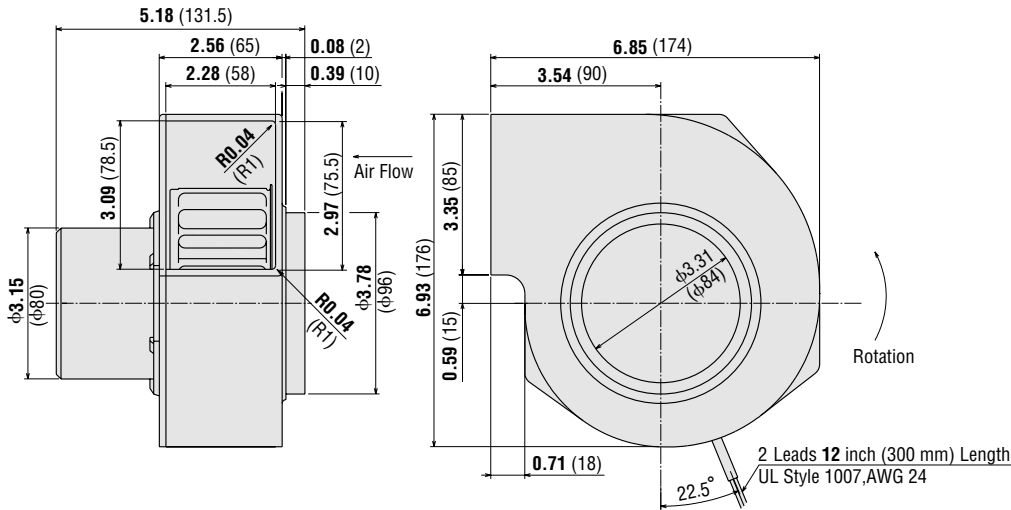
Measured at a distance of 3.3 feet (1 m) from the fan intake side



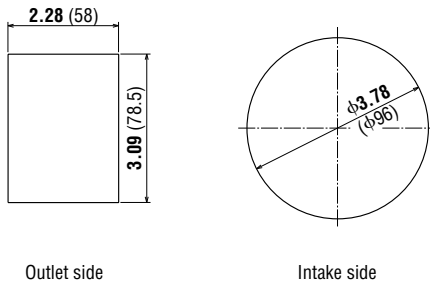
Dimensions Scale 1/4, Unit = inch (mm)

Weight: 3.3 lb. (1.5 kg)

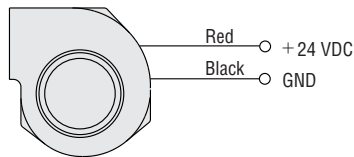
DXF E031



Panel Cut-Out Scale 1/4, Unit = inch (mm)



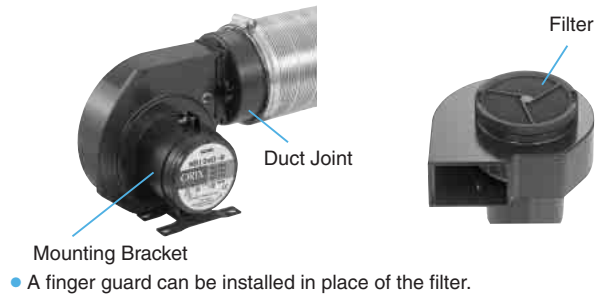
Connection Diagram



Accessories (Sold Separately)

Item	Model	Safety Standards	Page
Finger Guard	FGB12	*	E-104
Filter	FLB12	—	E-106
Mounting Bracket	PAS4B	—	E-109
Duct Joint	FD12	—	E-110

* 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**.



Introduction

MRS

Variable Flow

MU

MDE

MDS · MD

MB

MBD

MF

MFD

Thermostats

Accessories

Before Using a Fan

MBD Series

DC Centrifugal Blowers

Impeller Diameter

ϕ3.94 in. (ϕ100 mm)



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

Materials

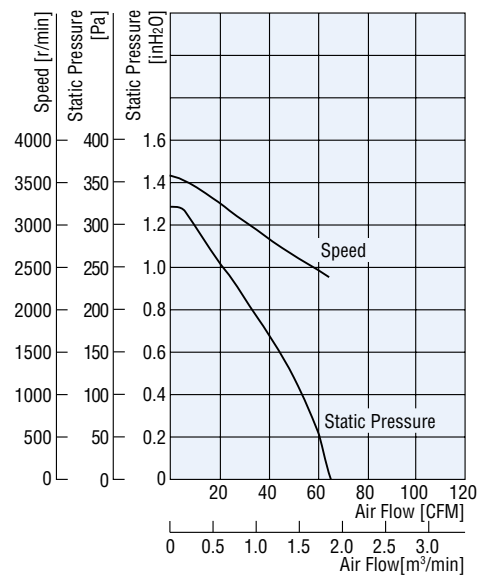
Motor Case: Die Cast Aluminum
Casing: Die Cast Aluminum
Impeller: Aluminum
Overheat Protection: Built-in Overheat Protection Circuit
Bearings: Ball Bearings

Specifications

Model	Voltage VDC	Current A	Speed r/min	Max. Air Flow CFM m ³ /min	Max. Static Pressure inH ₂ O Pa	Noise Level dB (A)
Low Speed Alarm, Contact Alarm Type ⑦	24	1.0	2400	68.8 1.95	1.18 294	56
MBD10-24A						
Pulse Sensor Type ⑨	48	0.7	2400	68.8 1.95	1.18 294	56
MBD10-24S						
Standard Type ⑨	48	0.7	2400	68.8 1.95	1.18 294	56
MBD10-48S						
Standard Type						
MBD10-48						

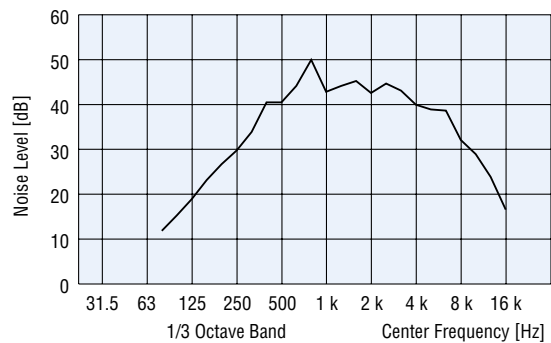
• How to read the specifications → Page E-13 • Alarm Specifications ⑦, ⑨ → Page E-16

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

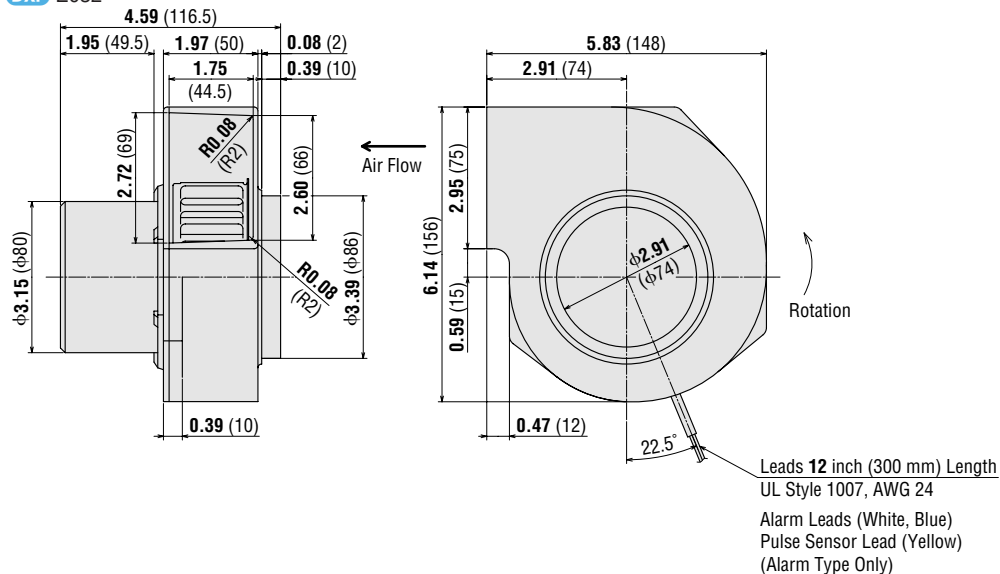


Dimensions

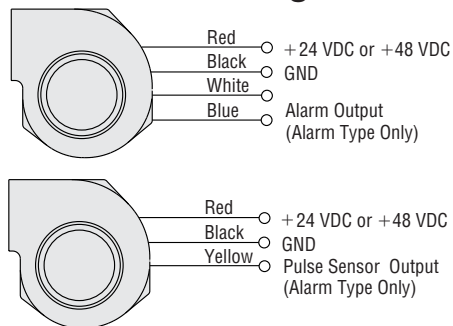
Scale 1/4, Unit = inch (mm)

Weight: 2.6 lb. (1.2 kg)

DXF E032

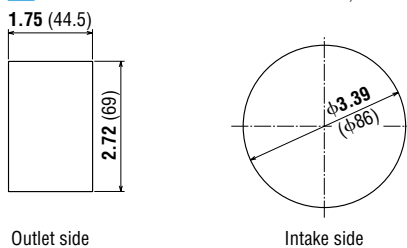


Connection Diagrams



Panel Cut-Out

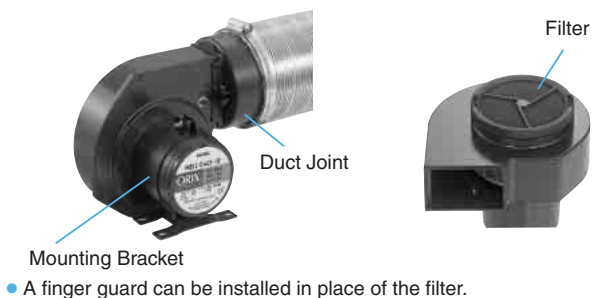
Scale 1/4, Unit = inch (mm)



Accessories (Sold Separately)

Item	Model	Safety Standards	Page
Finger Guard	FGB10	*	E-104
Filter	FLB10	—	E-106
Mounting Bracket	PAS4B	—	E-109
Duct Joint	FD10	—	E-110

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MBD Series

DC Centrifugal Blowers

Impeller Diameter

ϕ3.15 in. (ϕ80 mm)



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

Materials

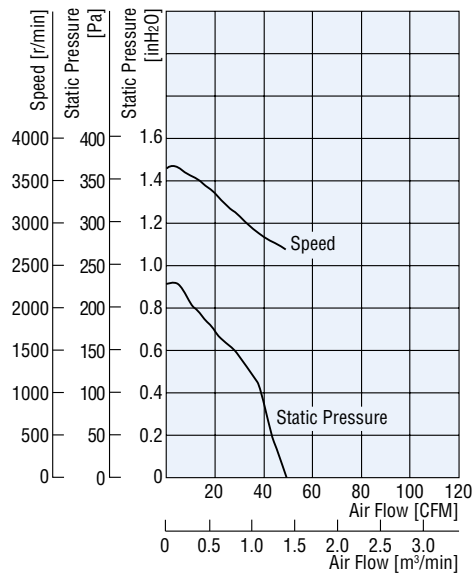
Motor Case: Die Cast Aluminum
Casing: Die Cast Aluminum
Impeller: Aluminum
Overheat Protection: Built-in Overheat Protection Circuit
Bearings: Ball Bearings

Specifications

Model	Voltage VDC	Current A	Speed r/min	Max. Air Flow CFM m ³ /min	Max. Static Pressure inH ₂ O Pa	Noise Level dB (A)
Low Speed Alarm, Contact Alarm Type ⑦	24	0.7	2600	51.2 1.45	0.786 196	51
MBD8-24A						
Pulse Sensor Type ⑨	48	0.5	2600	51.2 1.45	0.786 196	51
MBD8-24S						
Standard Type ⑨	48	0.5	2600	51.2 1.45	0.786 196	51
MBD8-48S						
Standard Type						
MBD8-48						

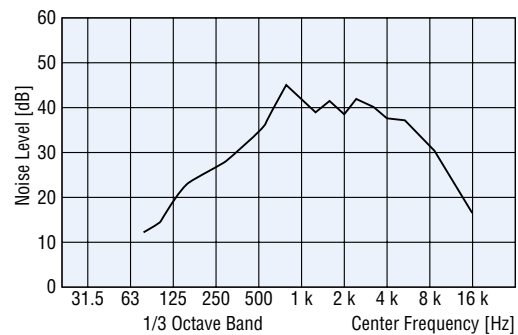
• How to read the specifications → Page E-13 • Alarm Specifications ⑦, ⑨ → Page E-16

Air Flow — Static Pressure Characteristics



Frequency — Audible Noise Level (dB)

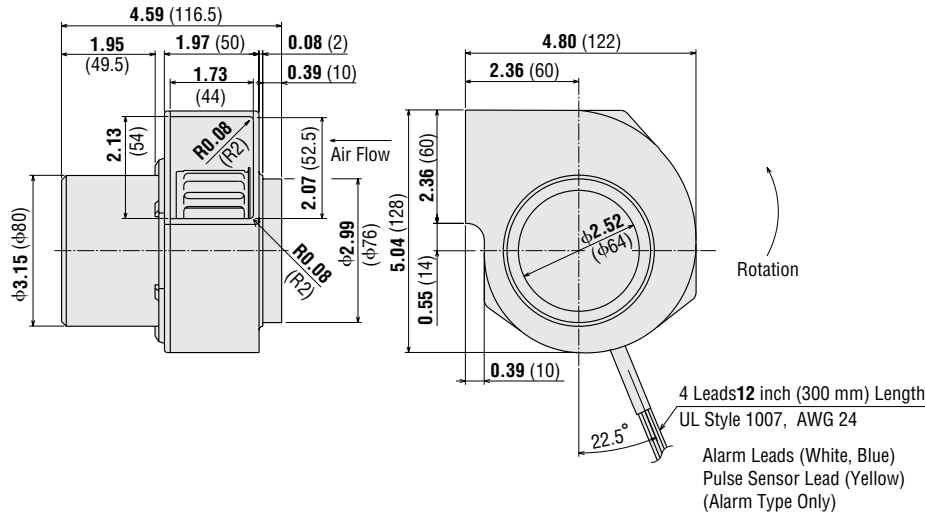
Measured at a distance of 3.3 feet (1 m) from the fan intake side



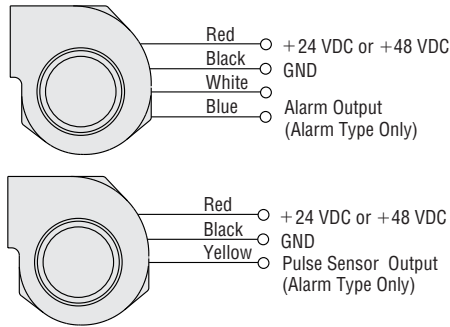
■ Dimensions Scale 1/4, Unit = inch (mm)

Weight: 2.4 lb. (1.1 kg)

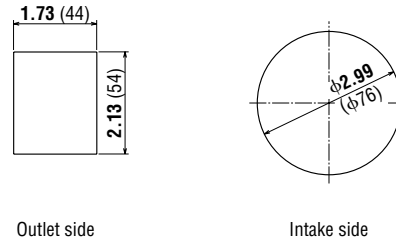
DXF E033



■ Connection Diagrams



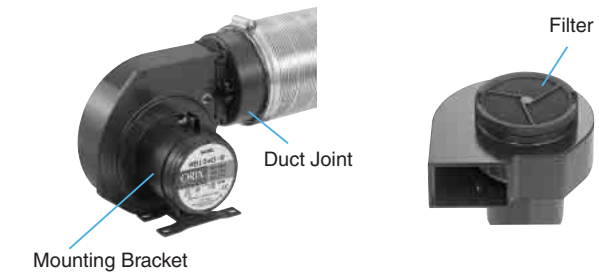
■ Panel Cut-Out Scale 1/4, Unit = inch (mm)



■ Accessories (Sold Separately)

Item	Model	Safety Standards	Page
Finger Guard	FGB8	*	E-104
Filter	FLB8	—	E-106
Mounting Bracket	PAS4B	—	E-109
Duct Joint	FD8	—	E-110

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- A finger guard can be installed in place of the filter.

Introduction

MRS

Variable Flow

MU

Long Life

MDS - MD

MB

MBD

MF

MFD

Thermostats

Accessories

Before Using a Fan

Centrifugal Blowers

AC Input

DC Input

AC Input

DC Input

AC Input

DC Input

AC Input

DC Input

AC Input

DC Input