

AC Input/Low-Power Consumption EMU Series

<Additional Information>

- Technical reference → Page H-1
- Regulations & Standards → Page I-2



● For detailed information about regulations and standards, please see the Oriental Motor website.



Reduced power consumption through the use of a built-in brushless motor. With support for a wide voltage range, the fans can use single-phase 100-240 VAC (50/60 Hz). The same characteristics can be achieved regardless of the frequency used.

Features

Low-Power Consumption

By using brushless motors, power consumption is reduced by approximately 72%*.

Lifetime of 60,000 hours (approx. 6 years)

By using brushless motors, heat generation can be reduced and unit life is increased 2.2 times*.

*Compared to **MU1238A-51B**.

Wide Voltage Support

Can be used with single-phase 100-240 VAC (50/60 Hz) power supply. The same characteristics can be achieved regardless of the frequency used.

Lightweight

The mass of the fan has been lightened by approximately 45%* by using resin for the frame.

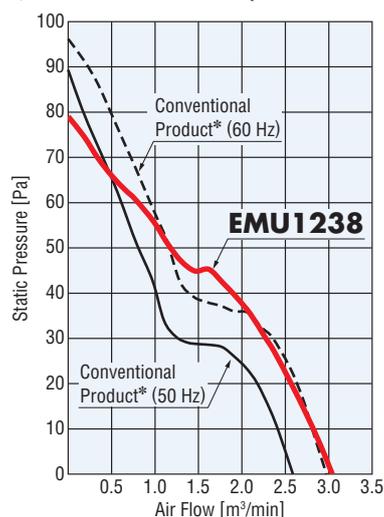
Comparison of Specifications and Characteristics between the EMU Series and Conventional Products

◇ Specification Comparison

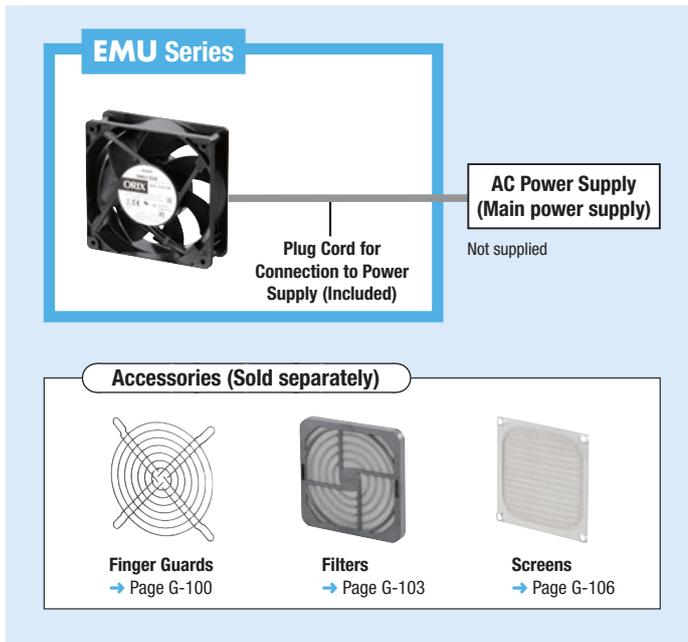
Item	Product	EMU1238-□	Conventional Product* 230 VAC 50/60 Hz
Power Consumption [W]		4.4	16/13.5
Speed [r/min]		3250	2800/3250
Max. Air Flow [m ³ /min]		3	2.7/3
Max. Static Pressure [Pa]		84	81/81
Noise Level [dB]		42	43/46
Mass [kg]		0.29	0.53

***MU1238A-51B**

◇ Characteristics Comparison



System Configuration



● Example of System Configuration

Fan	Sold Separately
EMU1238-1 €34.00	Finger Guard FG12D €5.00

● The system configuration shown above is an example. Other combinations are also available.

Product Number

● Fan Only

EMU 12 38 M - 1

① ② ③ ④ ⑤

● Fan Kit

T - EMU1238M-1 - G

① ② ③

①	Series	EMU: EMU Series
②	Frame Size	12: 120 mm
③	Frame Thickness	38: 38 mm
④	Additional Function	M: Low-Speed Alarm, Electronic Alarm Type Blank: No additional functions
⑤	Plug Cord Length (Included)	1: 1 m, 2: 2 m

①	Fan Kit Order Code
②	Fan Product Name
③	G: With finger guard and installation screws

Overview,
Product
Series

Axial
Flow
Fans

AC Input
Energy Saving
EMU

AC Input
Energy Saving,
Variable Flow
EMR

AC Input
Compact Size
MU

AC Input
Long-Life
MRE

DC Input
MDS
MD

DC Input
Alarm
MDA

DC Input
Long-Life
MDE

Centrifugal
Blowers

AC Input
MB
DC Input
MBD

Cross Flow Fans

AC Input
MF
DC Input
MFD

Accessories

Installation

EMU Series

120 mm – 38 mm Thick



With Alarm

Operating Voltage Range: ±10%
Overheat Protection: Built-in Overheat Protection Circuit
Color
Frame: Black Blades: Black
Materials
Frame: PBT (Flammability grade V-0)
Blades: Polyphenylene Oxide (Flammability grade V-1)

80 mm

92 mm

104 mm

119 (120) mm

140 mm

160 mm

180 mm

200 mm

Specifications



Product Name		Voltage VAC	Frequency Hz	Current A	Input W	Speed r/min	Max. Air Flow m³/min	Max. Static Pressure Pa	Noise Level dB(A)
Standard Type	Low-Speed Alarm Electronic Alarm Type (Alarm Specifications: ①)								
EMU1238-<input type="checkbox"/>	EMU1238M-<input type="checkbox"/>	Single-Phase 100-240	50/60	0.08	4.4	3250	3	84	42

- A number indicating the desired length of **1** (1 m) or **2** (2 m) is entered where the box is located within the product name when the plug cord included with the product.
- The current is the value when 100 VAC is applied.
- Alarm specifications ① → Page G-13
- Regulations & Standards → Page I-2

Product Line

● Standard Type

Fan Only		Fan Kit	
Product Name	List Price	Product Name	List Price
EMU1238-1	€34.00	T-EMU1238-1-G	€38.00
EMU1238-2	€34.00	T-EMU1238-2-G	€38.00

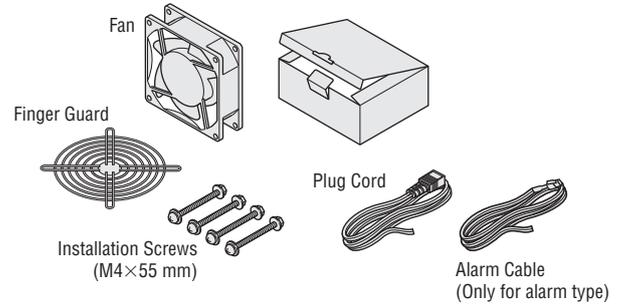
- The fan kit includes a finger guard **FG12D** (€5.00).

● Low-Speed Alarm, Electronic Alarm Type

Fan Only		Fan Kit	
Product Name	List Price	Product Name	List Price
EMU1238M-1	€46.00	T-EMU1238M-1-G	€49.00
EMU1238M-2	€46.00	T-EMU1238M-2-G	€49.00

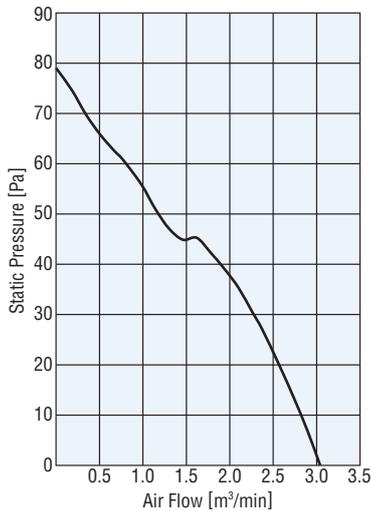
- The fan kit includes a finger guard **FG12D** (€5.00).

The following items are included in each kit.



Air Flow – Static Pressure Characteristics

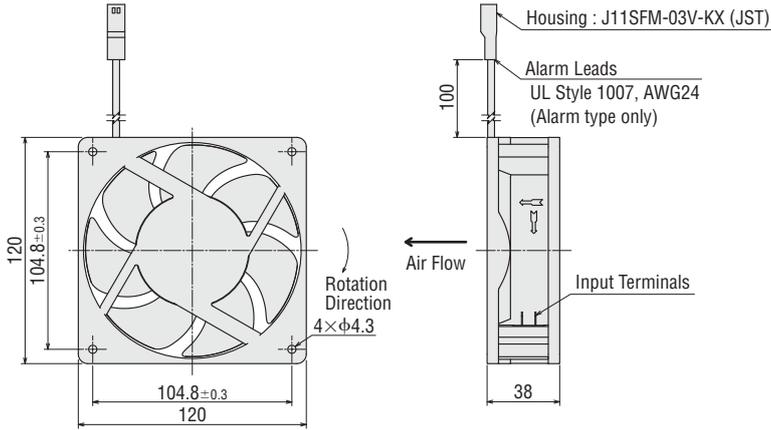
(The characteristics are applicable for the fan only.)



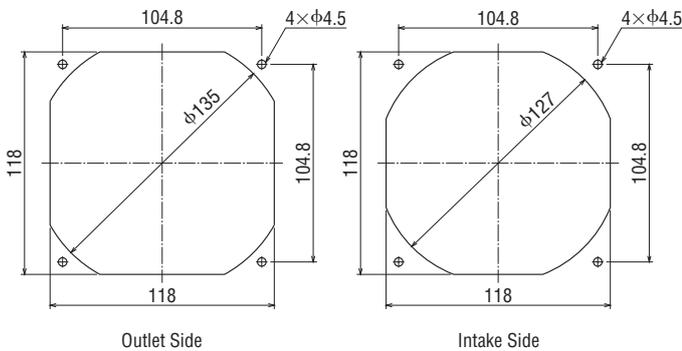
Dimensions Unit: mm

Fan

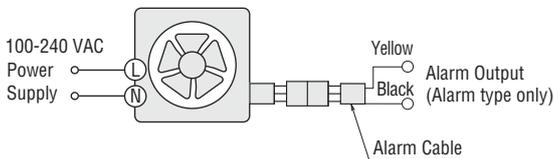
Mass: 0.29 kg



Panel Cut-Out Unit: mm



Connecting Diagram



Enclosure Fan Modules

These products integrate the **EMU** Series fan with peripheral equipment such as the cover, filter media, frame and finger guard. Optimized cooling for control boxes.

Finger Guard IP2X Type



List Price €49.00~€66.00

Slit Metal Plate IP4X Type

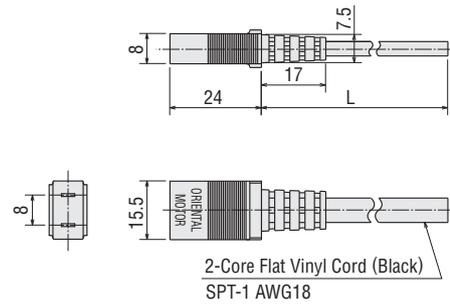


List Price €85.00~€266.00

● For details on these products please refer to our website.

Extension Cable (Included)

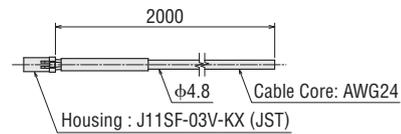
Plug Cord for Connection to Power Supply



Product Name	L [mm]
EMU1238 □-1	1000
EMU1238 □-2	2000

● With the alarm type, **M** is entered where the box □ is located within the product name.

Alarm Cable (Included with the alarm type)



Accessories

Product	Product Name	List Price	Page
Finger Guard	FG12D	€5.00	G-100
Stainless Steel Finger Guard	FG12S	€6.00	G-102
Filter	FL12	€8.00	G-104
Metallic Filter	FLW12	€14.00	G-105
Screen	FS12S	€7.00	G-106

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Installation