AC Input/Low-Power Consumption

EMU Series





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 68%*.

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-21B.

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.

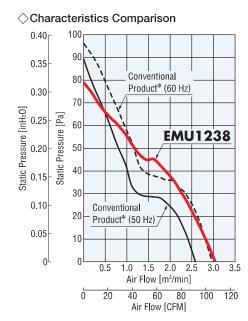
Lightweight

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

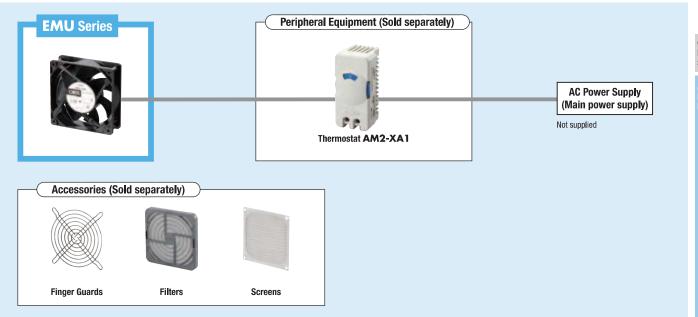
♦ Specification Comparison

EMU1238-	Conventional Product* 50/60 Hz		
4.4 Reduced by Approx. 66~68% 14/13			
3250	2800/3250		
3 (106)	2.7/3 (95.3/106)		
84 San (0.337) Characte	01/01		
42	43/46		
	ox. 45% (1.2)		
	3250 3 (106) 84 (0.337) Characte 42 0.29 Reduce		



*MU1238A-21B

System Configuration



●Example of System Configuration

		Sold Separately		
Fan	+	Thermostat	Finger Guard	
EMU1238-1		AM2-XA1	FG12D	
\$52.00		\$35.00	\$6.00	

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

Product Number

Fan Only

EMU 12 38

1

2





Fan Kit

CAD Data

T - EMU1238-1 - G

1

2



1	Series	EMU: EMU Series
2	Frame Size	12 : 120 mm (4.72 in.)
3	Frame Thickness	38 : 38 mm (1.50 in.)
4	Plug Cord Length (Included)	1: 1 m (3.3 ft.), 2: 2 m (6.6 ft.)

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

Product Series

Consumption **EMU**

AC Input Compact Size

AC Input Long-Life MRE

DC Input MDS MD

DC Input Alarm MDA

DC Input Variable Flow MDV

DC Input Long-Life MDE

DC Input Splash Proof MDP

Centrifugal Blowers

AC Input MB

Cross Flow Fans

AC Input DC Input MFD

Enclosure Fan Modules

Thermostat

Accessories

Installation

EMU Series

 $oxedsymbol{\square}$ **120 mm** – 38 mm Thick

 \Box 4.72 in. – 1.50 in. Thick)



Operating Voltage Range: $\pm 10\%$

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 (□3.15 in.)

□92 mm (□3.62 in.)

□120 mm (□4.72 in.)

□140 mm (□5.51 in.)

□160 mm (□6.30 in.)

□180 mm (□7.09 in.)

□200 mm (□7.87 in.)

□250 mm (□9.84 in.)

Specifications

Product Name	Voltage	Frequency	Current	Input	Speed	Max. A	ir Flow	Max. Stati	Pressure	Noise Level
	VAC	Hz	A	W	r/min	m³/min	CFM	Pa	inH ₂ O	dB (A)
EMU1238-□	Single-Phase 100-240	50/60	80.0	4.4	3250	3	106	84	0.337	42

● A number indicating the desired length of 1 [1 m (3.3 ft.)] or 2 [2 m (6.6 ft.)] is entered where the box □ is located within the product name when the plug cord included with the product.

Product Line

Fan Only

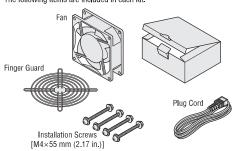
Product Name	List Price		
EMU1238-1	\$52,00		
EMU1238-2	\$52.00		

The following items are included with each product. Fan, Plug Cord for Connection to Power Supply, Operating Manual

Fan Kit

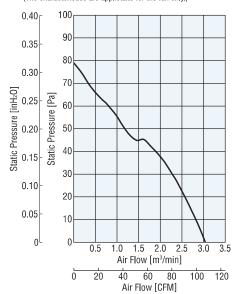
Product Name	List Price
T-EMU1238-1-G	\$58,00
T-EMU1238-2-G	\$58.00

The following items are included in each kit.



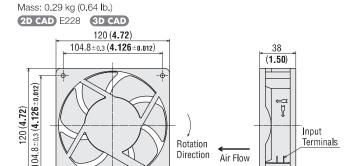
Air Flow - Static Pressure Characteristics

(The characteristics are applicable for the fan only.)

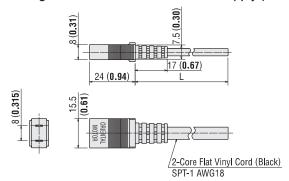


Dimensions Unit = mm (in.)

Fan

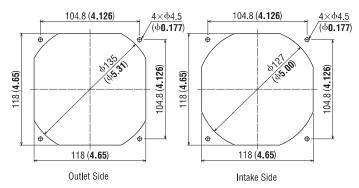


Plug Cord for Connection to Power Supply (Included)



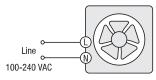
Product Name	L [mm (ft,)]		
EMU1238-1	1000 (3.3 ft.)		
EMU1238-2	2000 (6.6 ft.)		

Panel Cut-Out Unit = mm (in.)



4×Φ4.3 (Φ**0.169**)

Connecting Diagram



Thermostat

The thermostat automatically controls the operation of the fan in accordance with temperature fluctuations inside the equipment. This helps improve the equipment's "environmental" performance relative to energy savings, noise reduction, etc.



CAD Data

Thermostat **AM2-XA1**Number of Connectable Fans: 9

● Page → G-104

Accessories

Product	Product Name	Page
Finger Guard	FG12D	G-108
Filter	FL12	G-111
Screen	FS12S	G-113

Overview, Product Series

Axial

AC Input Low-Power

AC Input Compact Size

AC Input Large Size, Large Air Flow MRS

AC Input Long-Life MRE

DC Input MDS MD

DC Input Alarm MDA

DC Input Variable Flow MDV

DC Input Long-Life MDE

DC Input Splash Proof MDP

Centrifugal Blowers

AC Input MB DC Input MBD

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