



ORIENTAL MOTOR U.S.A. Corp.
570 Alaska Avenue
Torrance, CA 90503
1-800-GO-VEXTA (468-3982)

Item # FRN0004C2S-2U, Compact Inverter (VFD) for 1/2 HP Motors (Three-Phase 230 VAC)



With its high functionality, compact design, simple operation, built-in network capabilities and global compatibility, the new FRENIC-Mini (C2) elevates the performance of a wide range of devices and equipment--including conveyors, fans, pumps, centrifugal separators, and food processing machines--to give you the system integration, energy efficiency, reduced labor, and lower overall costs you're looking for.

- High Performance & Multipurpose
- Easy Operation & Maintenance
- Network Capabilities
-

Web Price

\$194.65

[+ more](#)

Specifications | Dimensions

Specifications

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Lead Time¹

Contact your local sales office.
This Item cannot be cancelled or returned.

Nominal Motor HP

1/2 HP

Power Supply

Three-Phase 200 to 240 V, 50/60 Hz

Voltage / Frequency Variations (Input)

Voltage: +10% to -15% (Voltage unbalance: 2% or less),
Frequency: +5 to -5%

Rated Current (Input)

1.6 A (with DCR)
3.1 A (without DCR)

Required Power Supply Capacity (Input)

0.6 kVA

Rated Capacity (Output)

1.3 kVA

Rated Voltage (Output)

Three-Phase 200 to 240V (With AVR)

Rated Current (Output)

3.5 A (2.5 A)



Overload Capability (Output)	150% of rated current for 1 min 150% of rated current for 1 min or (200% of rated current for 0.5s (For rated current in parenthesis)
Rated Frequency (Output)	50, 60 Hz
Maximum Output Frequency	Adjustable up to 400 Hz. However, when using with Oriental Motor or Brother Gearmotors, limit the motor output speed to 120 Hz (3,600 r/min).
Torque % (Braking)	100
DC Injection Braking (Brake)	Starting Frequency: 0.0 to 60.0 Hz, Braking time: 0.0 to 30.0s, Braking level: 0 to 100%
Braking Transistor (Brake)	Built-in
Motor Control Method	Induction Motor: V/f, Dynamic Torque Vector, Slip Comp, Auto-Torque Boost, Automatic Energy Savings Synchronous Motor (PMAC): Sensorless Magnetic Positioning [speed control range: 10% of base frequency and up]
Protocol	Modbus RTU Mode / RS-485 Port
Analog Inputs	0 to +10 VDC 0 to 20mA or 4 to 20 mA
Digital Inputs	Qty 5: Programmable
Input Power Supply	24 VDC 50 mA Max
Analog Outputs	Qty 1: 0 to +10VDC, User Selectable Proportional Analog Signal Functionality
Digital Outputs	Qty 1: Form C (1N.O. & 1N.C.) Dry Contacts Rated 0.3A at 230V Max, User Selectable Functionality Qty 1: Transistor Output Rated 50mA at 27Vdc Max, User Selectable Functionality
Applicable Safety Standards	UL508C, EN 61800-5-1:2007
Enclosure	IP20 (IEC 60529:1989) / UL open type (UL50)
Cooling Method	Natural Cooling
Ambient Temperature	+14 to +122°F (-10 to +50°C) - UL Open Type +14 to +104°F (-10 to +40°C) - UL Type 1
Storage Temperature	-13 to +158°F (-25 to +70°C)
Humidity	5% to 95% With No Condensation
Altitude	0 to 3,300 ft. (1,000 m) Without Derating, Derate Output Current for Higher Altitudes per User's Manual

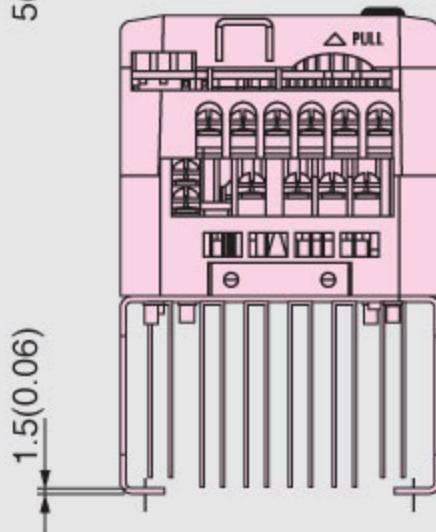
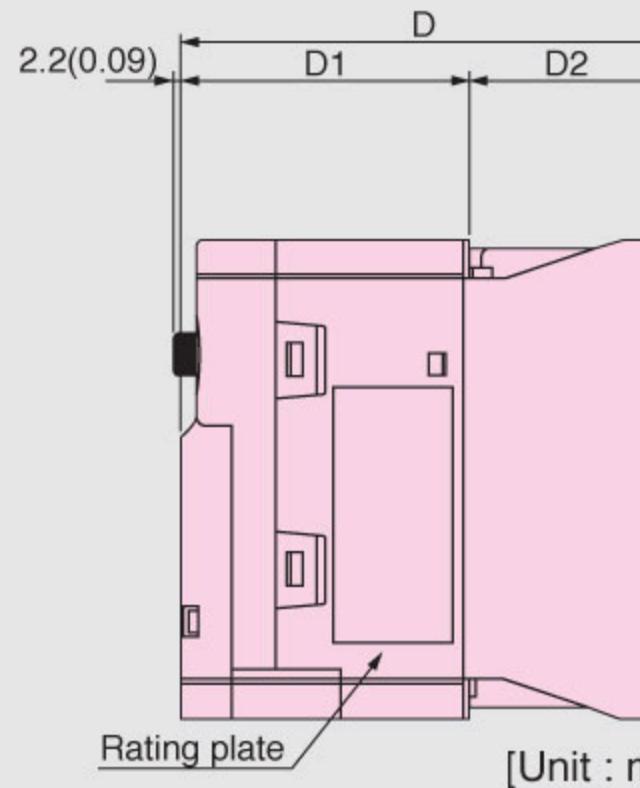
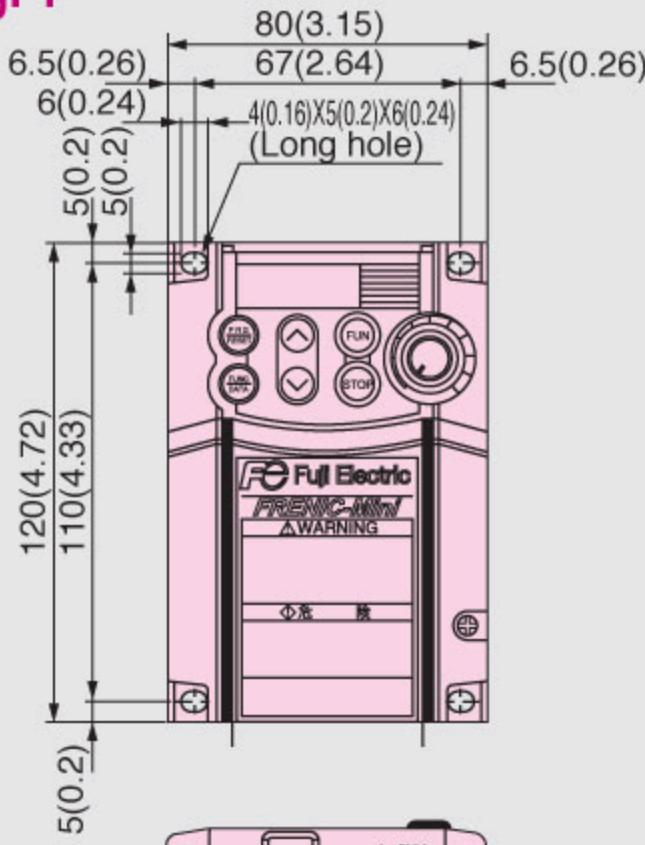
Dimensions

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External Dimensions

■ Standard Model

Fig. 1



Power supply voltage	Inverter type	Dimensions	
		D	D
Three-phase 200V	FRN0001C2S-2□	80(3.15)	70(2)
	FRN0002C2S-2□	80(3.15)	
	FRN0004C2S-2□	95(3.74)	
	FRN0006C2S-2□	120(4.72)	
Single-phase 200V	FRN0001C2S-7□	80(3.15)	70(2)
	FRN0002C2S-7□	80(3.15)	
	FRN0004C2S-7□	95(3.74)	
	FRN0006C2S-7□	140(5.51)	
Single-phase 100V	FRN0001C2S-6U	100(3.94)	90(3)
	FRN0002C2S-6U	100(3.94)	
	FRN0003C2S-6U	115(4.53)	

¹ Quoted Ship Date for orders placed before 12:00 pm PST. Quantities may affect Shipping Date.

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