



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
- 

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Web Price

**\$194.65**

### Specifications | Dimensions

#### Specifications

Lead Time <sup>1</sup>	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)



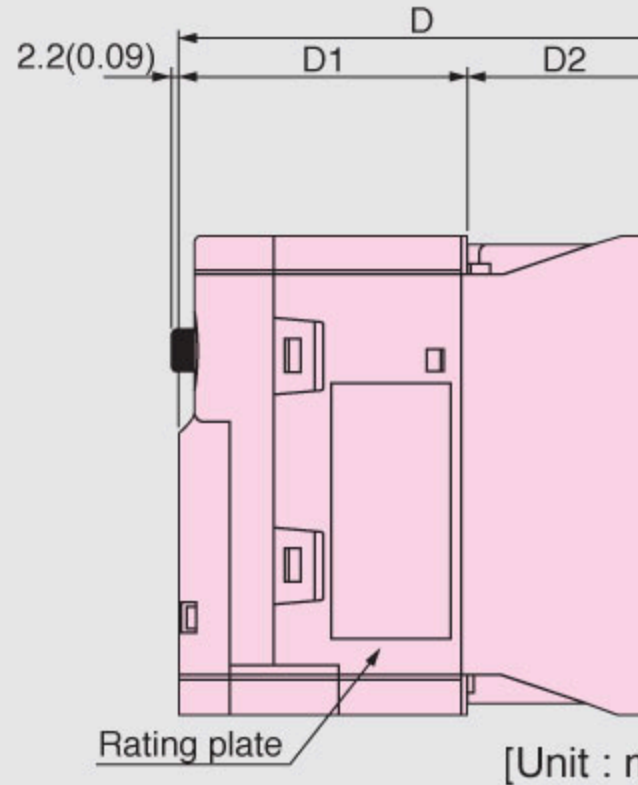
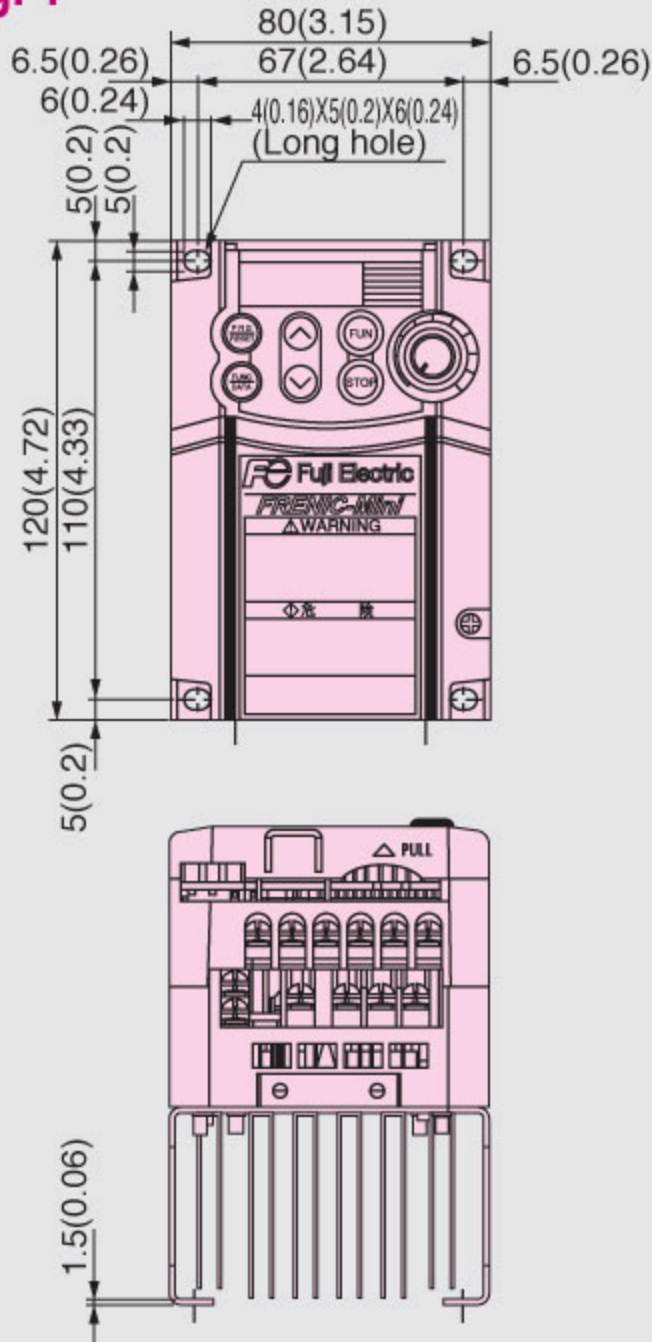
<b>Overload Capability (Output)</b>	150% of rated current for 1 min 150% of rated current for 1 min or (200% of rated current for 0.5s (For rated current in parenthesis)
<b>Rated Frequency (Output)</b>	50, 60 Hz
<b>Maximum Output Frequency</b>	Adjustable up to 400 Hz. However, when using with Oriental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

Dimensions	

# 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)	

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

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