



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
- 

+ more

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

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