

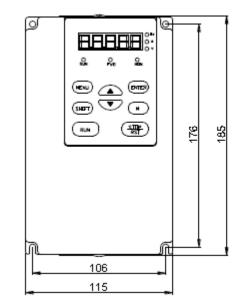
 Control Mode: V/F control; Open-loop vector control

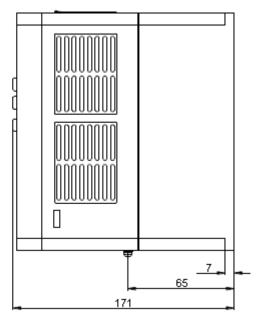
KNC-VFD-FV100-2S Series

- Carrier frequency up to 15KHz
- Auto torque boost and auto slip compensation function
- Built-in PID control
- Standard equiped Modbus (RS485 baud rate up to 38400bps)
- Sleep/wake up funtion



The FV100-2S is a rugged line of AC Variable Frequency Drives for OEM and Industrial applications, combining high performance and cost efficiency into one powerful package. Available in input voltages of 240VAC and capable of powering AC motors from 0.50 to 5Hp, these VFDs are great for normal duty and soft-start operation. These drives provide energy savings and increased efficiency, making them ideal for fan, pump, and HVAC applications. They are equipped with a number of different features such as momentary power loss restarts, flying starts, auto-acceleration/ deceleration, and sensorless vector control. These features make the VFDs compatible with most AC motors and allow for flexibility within an application.





## L011451

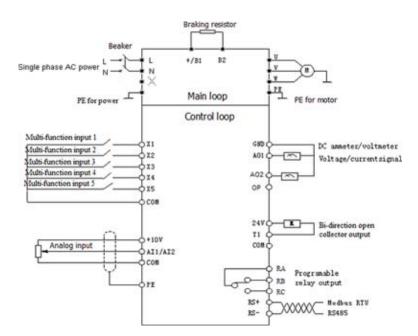
DIMENSIONS

## KNC-VFD-FV100-2S Series



SERIES #	Input Voltage Range	Max Power (KW)	Max Power (HP)	Rated Current (A)	Overload Tolerance for One Minute (A)	Installation Type
FV100-2S-0004G	Single-Phase, 240V	0.4	0.5	2.5	3.75	Cabinet or Enclosure
FV100-2S-0007G	Single-Phase, 240V	0.75	1	4.0	6	Cabinet or Enclosure
FV100-2S-0015G	Single-Phase, 240V	1.5	2	7.5	11.25	Cabinet or Enclosure
FV100-2S-0022G	Single-Phase, 240V	2.2	3	10	15	Cabinet or Enclosure
FV100-2S-0037G	Single-Phase, 240V	3.7	5	16	24	Cabinet or Enclosure

MODEL	FV100-2S					
	0004	0007	0015	0022	0037	
The Power of Suitable Motor (KW)	0.4	0.75	1.5	2.2	3.7	
OUTPUT						
Voltage (V)		3-Phase,	0~ Rated Inp	ut Voltage		
Rate Current (A)	2.5	4.0	7.5	10	16	
Overload Capacity	150% 1 Minute; 180% 10 Seconds; 200% 0.5 Second; 10 Minutes Interval (Inverse Time Limit Speciality)					
INPUT						
Rated Voltage/Frequency	Single Phase, 240VAC; 50Hz/60Hz					
Allowable Voltage Range 180VAC~260VAC; Voltage Unbalancedn Frequency Fluctuation; ±			; Allowable			
Rated Current (A)	5.3	8.2	14.0	23.0	32.0	
Brake Unit	Built-In					



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	INPUT				
Rated Voltage/Frequency	Single Phase, 200VAC; 50Hz/60Hz				
Allowable Voltage Range	180-260VAC; Voltage Unbalanceness:<3%; Frequency: ±5%				
	OUTPUT				
Voltage	0~Rated Input Voltage				
Frequency	OHz-300Hz (0Hz-1000Hz Custom)				
Overload Capacity	G Type: 150% Rated Current for 1 Minute, 180% Rated Current for 10 Seconds				
	MAIN CONTROL CHARACTERISTICS				
Control Method	Vector Control Without PG, V/F Control				
Starting Torque	0.5Hz: 150% Rated Torque (Vector Control Without PG)				
Frequency Accuracy	Digital Setting: Max. Frequency x ±0.01%; Analog Setting: Max. Frequency x ±0.2%				
Frequency Resolution	Digital Setting: 0.01Hz; Analog Setting: Max. Frequency x 0.05%				
Torque Boost	Manual Torque Boost: 0%-30.0%				
V/F Pattern	4 Patterns: 1 V/F Curve Mode Set by User and 3 Kinds of Torque-Derating Modes (2.0 Power, 1.7 Power, 1.2 Power				
Acceleration/Deceleration Curve	Linear Acceleration/Deceleration. Four Kinds of Acceleration/Deceleration Time				
Auto Current Limit	Limit Current During Operation Automatically to Prevent Frequent Overcurrent Trip				
	CUSTOMIZED FUNCTION				
Operation Command	Keypad Setting, Terminal Setting, Communication Setting				
Frequency Command	Digital Setting, Analog Voltage Setting, Analog Current Setting				
Auxiliary Frequency Setting	Implement Flexible Auxiliary Frequency Trim and Frequency Synthesis				
Analog Output	1 Channel Analog Output (0/4~20mA or 0/2~10V)				
Protection Function	Overcurrent Protection, Overvoltage Protection, Undervoltage Protection, Overheat Protection, Overload Protection, Missing Phase Protection (Seletable) and So On				
	ENVIRONMENT				
Altitude	Derated Above 1000m, The Rated Output Current Shall be Decreased by 10% for Every Rise of 1000m				
Ambient Temperature	-10°C - +40°C (Derated at 40°C-50°C)				
Humidity	5%~95%RH, Non-Condensing				
Vibration	Less Than 5.9m/s <sup>2</sup> (0.6g)				
Storage Temperature	-40°C - +70°C				

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