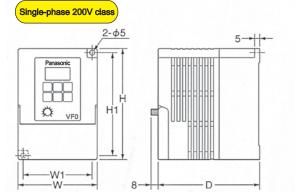
Rated specifications

Input Voltage	Single-phas	e 200V seri	ies	Three-phase 400V series				
Model 1)	BFV00022D	BFV00042D BFV00042G	BFV00072D BFV00072G	BFV00152D BFV00152G	BFV00074	BFV00154	BFV00224	BFV00374
Motor output (kW)	0.2	0.4	0.75	1,5	0.75	1.5	2.2	3.7
Rated output current (A)	1.4 2)	2.4 2)	3.6 2)	7.0 2)	2,1	3.8	5.4	8.7 3)
Rated output capacity (kVA) 4)	0.6	1.0	1.4	2.8	1.7	3.0	4.3	6.9
Power supply capacity (kVA) 5)	0.7	1.2	1.7	3.7	2.6	3.6	6.4	10.4
Mass(kg)	0.7	0.7	1.2	1.3	1.4	1.4	1.4	2.1

- 1) In the order number for 200V series, those with a suffix of D represent no regenerative brake, and those with a suffix of G represent regenerative brake (0.75kW, 1.5kW: circuit built-in brake resistor; 0.4 kW: only circuit built in, brake resistor is supplied as an option for external setting). 400V series: all use brake circuits built in (brake resistor is supplied as a dedicated option for external setting).
- 2) The rated output current for 200V series is that for when the carrier frequency is 10.0kHz or less. When using at 12.5kHz and 15kHz, the rated output current must be reduced by 5% (12.5kHz) and 10% (15kHz).
- The rated output current for the 3.7kW capacity of 400V series is that for when the carrier frequency is 7.5kHz or less. When using at 10.0kHz, the rated output current must be reduced by 10%.
- 4) The rated output capacity for 200V series is that for the output voltage 230V. and the rated output capacity for 400V series is that for the output voltage 460V.

 5) The power supply capacity will change according to the impedance on the power supply side. Prepare a power supply larger than the values given in the table.

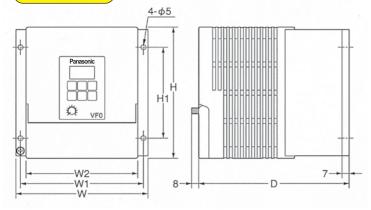
Outline Dimensions



				O		
Inverter Capacity (kW)	W	W1	Н	H1	D	
0.2	78	68	110	102	100	
0.75	100	90	130	121	115	

Note) Inverter with 1.5kW ratings is equipped with cooling fan.

3-phase 400V class



Inverter Capacity (kW)	w	W1	W2	Н	H1	D
0.75	130	121	110	130	90	148
1.5	130	121	110	130	90	161
2.2	130	121	110	130	30	101
3.7	160	151	140	130	90	161

Unit: mm

Note) Inverter with 1.5~3.7kW ratings is equipped with cooling fan.

Please contact.....

Panasonic Electric Works Automation Controls(Shanghai) Co.,Ltd.

T52-3,No.1510,Chuan Qiao Road,Jin Qiao Export Processing Zone,Pu Dong New Area,Shanghai, China P.R. Postcode:201206



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Panasonic ideas for life

Compact Inverter VF0 Series



http://www.nais-e.com/

Matsushita Electric Works, Ltd.

VF0 has come on stage with super-compactness









2.2 kW type

3.7 kW type

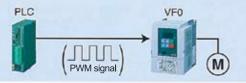
Compact

Compactness of best level has been achieved in response to request for space-saving.

The dimensional size is only 40%-56% of our past product. (The width of the 400V series not includes the mounting part.)

Frequency control with PLC is possible

Frequency control for motors is possible with PWM signal from PLC. Moreover, it can be used with the PLC(FP0 etc.) of our company without analog I/O unit.



Easy to operate

••••••••

Newly applied volume-switch makes operation easier. Forward/reverse run direction can be set with operation panel.











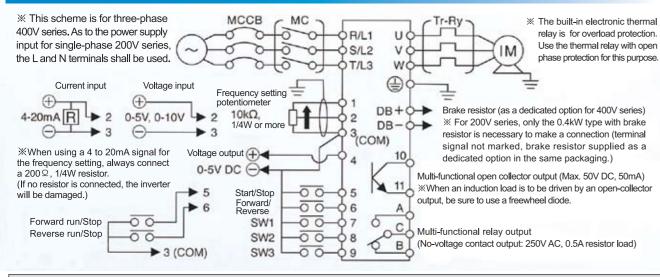
* When the digital setting of the P08 parameter is 1.

Compact Size with All Functions

- 8-speed control braking function
- Retry function
- Function of Setting the frequency increase/decrease and storage according to external SW input
- Regenerative brake function
- 400V series: brake circuit built in. 200V series: 0.4-1.5kW resistor built in

(No brake resistor for 0.2kW circuit; for 0.4kW circuit, brake resistor for external setting supplied in the same packaging.)

Standard wiring scheme



X Setting Manual Control as factory setting with operation panel before delivery. It may be necessary to change the setting parameters according to the control signal used.

Common specifications

	Input voltage	Single-phase 200V class	Three-phase 400V class			
	Motor output	0.2 to 1.5kW	0.75 to 3.7kW			
Rated	Rated output voltage 3-phase, 200 to 230VAC (proportional to power supply voltage)		3-phase, 380 to 460VAC (proportional to power supply voltage)			
Rai	Overload current rating	150% of rated out	put current for 1 minute			
5	Number of phases, voltage, frequency	Single-phase, 200 to 230VAC: 50/60Hz	3-phase, 380 to 460VAC: 50/60Hz			
le L	Tolerable voltage variations	+10%, -15% of rated AC input voltage				
Input frequence	Tolerable frequency variations	±5% of rated input frequency				
==	Instantaneous voltage drop resistance capacity	Continuous operation at 165V or more; Continuous operation at less than 165V for 15 ms.	Continuous operation at 323V or more; Continuous operation at less than 323V for 15 ms			

===	Instantaneous resistance cap	voltage drop pacity	Continuous operation at 165V or more; Continuous operation at less than 165V for 15 ms.	Continuous operation at 323V or more; Continuous operation at less than 323V for 15 ms.				
			0.5 to 250Hz					
Output	Frequency dis		Digital display					
	Frequency acc			±5% of selected maximum set frequency (25±10°C; for analog setting)				
	Frequency set		<u> </u>					
	Inverter contro	-	Digital setting : 0.1Hz (1Hz over 100Hz) · Analog setting : 0.1Hz (50/60Hz mode) High carrier frequency sinusoidal PWM control (V/F control method)					
	Carrier frequency		Select from 9 types (The output current must be reduced when the carrier frequency is set to 12.5, 15Hz.)(0.8, 1.1, 1.6, 2.5, 5.0, 7.5, 10.0, 12.5, 15.0kHz)	Select from 7 types (0.8, 1.1, 1.6, 2.5, 5.0, 7.5, 10.0kHz) (The rated output current must be reduced when the 3.7kW capacity is set to 10kHz.)				
	Start/Stop		Operation panel buttons or 1a cont	tact signal (wait time setting possible)				
	Forward/Reve	rse	Operation panel buttons or 1a contact signal (reverse rotation prohibit setting possible)					
_	Jog operation		Operating frequency: Optional setting for 0.5 to 250Hz, Acceleration/deceleration time: Optional setting each for 0.04 to 999 seconds					
Operation	Stop mode		Select from ramp-to-stop or coast-to-stop (selection changeover)					
ber	Reset function		Stop signal reset, external reset, panel res	set (setting possible) and power supply reset				
0	Stop frequency		Optional setting	g from 0.5 to 60Hz				
	Instantaneous failure restart	power	Function ON/OFF, and 0Hz restart, operat	ting frequency restart (selection changeover)				
	Retry function		Retry selection : Select function ON/OFF and details of r	etry fault · No. of retries : Optional setting for 1 to 10 times				
	Frequency setting signal		Manual setting: Potentiometer, digital setting (operation panel) Remote control analog setting signal: Potentiometer (10kΩ 1/4W), 0 to 5V DC, 0 to 10 V DC, 4 to 20mA DC (Connect a 200 Ω 1/4W or more external resistor) Remote control digital setting signal: PWM signal (signal cycle: 0.9 to 1100ms), Frequency up SW, down SW, save SW signal					
	Voltage/freque characteristics	S	· Base frequency : 50, 60Hz fixed and optional setting between 45 and 250Hz, V/F curve : Constant torque, square torque pattern (selection changeover)					
_	2nd Voltage/frequency characteristics		· Optional base frequency setting for 45 to 250Hz					
Contro	1st and 2nd to	rque boost level	Optional setting for 0 to 40%					
ပိ	1st and 2nd A	ccel./Decel. time	· 0.04 to 999 sec. (individual accel. and decel. time setting) · Accel./Decel. Characteristics: Linear					
	Multi-speed frequency setting		Up to 8 preset frequency settings (optional setting)					
	Skip frequency	y setting	Up to 3 place settings (skip frequency band setting from 1 to 10Hz)					
	Upper/Lower f	requency setting	Optional setting from 0.5 to 250Hz					
	Bias/gain frequency settings		Bias frequency : set from -99 to 250Hz Gain frequency : set from 0 to 250Hz					
	External stop t	function	Select from auxiliary stop or coast-to-stop (selection setting)					
D	Regenerative braking torque	With braking	· 0.4kW, 0.75kW, 1.5kW: 100% or more (in short time)	· 20% or more				
Braking		Without braking	0.2kW : 100% or more · 0.4kW : 80% or more 0.75kW : 20% or more · 1.5kW : 20% or more	100% or more when brake resistor (option) is connected. (Brake resistor built in)				
	DC braking		· Operates when less than stop frequency, braking torque level : 0 to 100 (se					
	Analog output		· Output specifications : 0 to 5V (max. 1mA) · Output functions : Output frequency, output current proportional (selection changeover)					
Output signal	Open collector output		Output specifications: Max. rating 250V DC, 50mA Output functions: Run signal, arrival signal, overload prealarm, frequency detection, reverse run signal, fault warning, PWM signal output (cycle 1ms, frequency/current proportional, selection changeover)					
Out	Relay output		Output specifications : 1c contact (contact capacity 250VAC, 0.5A, resistance load) Output functions : Run signal, arrival signal, overload prealarm, frequency detection, reverse run signal, fault warning.					
isplay	Operating condition		Output frequency or line speed (selection changeover), output current, rotation direction					
Disp	Fault details		Symbol indicated when protective function activates (last 4 faults are stored).					
드	Current limit		Current limit can be set from 1 to 200% of rated output current.					
Protection	Shut-off (stop)		Instantaneous overcurrent, over temperature (SC1 to 3), overcurrent (OC1 to 3), overload/electronic thermal overload (OL), low voltage (LU), overvoltage (OU1 to 3), auxiliary stop (AU), operation error (OP)					
Д.	Stall prevention function		Overcurrent stall prevention, regenerative overvoltage stall prevention					
ent	Working ambient temperature and humidity		-10°C to +50°C (with no freezing), 90% RH or less (with no dew condensation)					
Environment	Transportation/storage temperature and humidity		-25°C to +65°C, 95% RH or less					
viro	Altitude and vibration		1000 m or less, 5.9 m/s² (0.6G) or less					
Е	Atmosphere		Indoors, with no corrosive gases, explosive gases, oil mist or dust present					
End	closure		IP20 shielded type, but not include the	main circuit and control circuit hole part.				
Cod	oling method		· Self-cooling : 0.2 to 0.75kW, forced-air cooling : 1.5kW	· Self-cooling : 0.75kW, forced-air cooling : 1.5 to 3.7kW				
	Please note that the specifications for 200V series and those for 400V series are different.							