VPFUJI
Automation
INVERTER

Changes for Better Life

FUJI FA COMPONENTS & SYSTEMS CO.,LTD
VINAPOWER AUTOMATION CO.,LTD

VPFUJI
Automation

Company Profile

Vinapower Automation Co.,Ltd (Factory) locates in Shanghai, the economic and industrial center of China. We are a manufacturer that focuses on inverter and servo products. We are established in 2005 and our factory size is about 27,000m^2. There are 320 employees include more than 60 professional technical engineers. Our factory has passed ISO9001 quality control system and all the products have CE certification.

VPFUJI has 3 main series of VFDs: VPFUJI-C10, VPFUJI-C20, and VPFUJI-T90. Besides we also have servo system and electrical vehicle driver and some specially designed products. The voltage ranges are from 110V to 1140V; power range covers 0.4kW to 1000kW. Our products are widely used in textile, print, CNC machine, food package, injection machine, fan, pump, air compressor, water treatment, industrial washing machine and many industrial applications.

VPFUJI products are exported to more than 50 countries in Asia, Europe, Africa and America. VPFUJI will always dedicate in the field of electrical drive and warmly welcome you to be our partner.

CONTENTS

VPFUJI-C20 Series

Mini Simple Vector Control Inverter

- Open loop vector control, V/F control
- Overload capacity is 60s for 150% of rate current, 3s for 180% of rate current.
- High performance; environmental adaptation
- Simple structure; Compact size; Easy install
- Economic vector control inverter, high torque output, motor runs smoothly when heavy loading.
- Instantaneous stop doesn't stop, reduce the rate of frequent fault alarm
- Protection function: Output phase loss protection, Over-current protection, Over-voltage protection, Overload protection, Over-heat protection etc.
- Support PM motor (C20 T series)
- Power range: 220V 0.4~3.7kW
  380V 0.4~630kW

Technology Features

Items		VPFUJI–C20
Basic control functions	Control method	Open loop vector control (without PG), V/F control
	Highest frequency	Vector control: 0 to 600 Hz V/F control: 0~320 0Hz
	Carrier frequency setting	0.5kHz~16kHz The carrier frequency can be automatically adjusted according to the load characteristics.
	Input frequency resolution	Digital setting: 0.01Hz Analog setting: maximum frequency × 0.025%
	Starting torque	Model G: 0.5 Hz/150% (without PG) P-type machine: 0.5 Hz/100%
	Speed range	1:100 (without PG)
	Steady speed accuracy	± 0.5 % (without PG)
	Overload capacity	G type machine: 150% rated current 60s; 180% rated current 3s. P-type machine: 120% rated current 60s; 150% rated current 3s.
	Torque boost	Automatic torque boost; manual torque boost 0.1%~30.0%
	V/F curve	Three ways: linear type; multi-point type; N-th power V/F curve (1.2 power, 1.4 power, 1.6 power, 1.8 power, 2 power)
	V/F separation	2 ways: full separation, half separation
	Acceleration and deceleration curve	Linear or S-curve acceleration and deceleration methods. Four kinds of acceleration and deceleration time, the acceleration and deceleration time range is 0.0~6500.0s
	DC braking	DC braking frequency: 0.00Hz~maximum frequency Braking time: 0.0s~36.0s Braking current value: 0.0%~100.0%
	Jog control	Jog frequency range: 0.00Hz~50.00Hz. The jog acceleration and deceleration time is 0.0s~6500.0s.
	PLC, multi–speed operation	Realize up to 16-speed operation through built-in PLC or control terminals
	Built–in PID	Process control closed-loop control system can be easily realized
	Automatic Voltage Adjustment (AVR)	When the grid voltage changes, it can automatically keep the output voltage constant

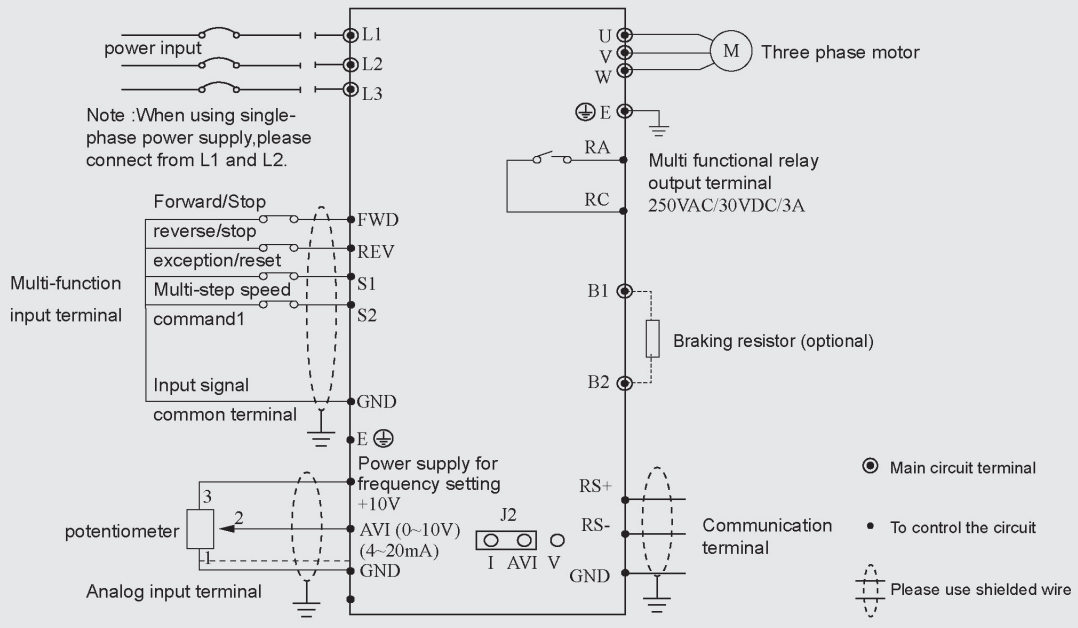
Items		VPFUJI–C20
Basic control functions	Overvoltage and overcurrent stall control	Automatically limit current and voltage during operation to prevent frequent overcurrent and overvoltage tripping
	Fast current limiting function	Minimize overcurrent faults and protect the normal operation of the inverter
	Torque Limiting and Control	" Excavator " feature, which automatically limits the torque during operation to prevent frequent overcurrent tripping
Personalized features	Great performance	Asynchronous or synchronous motor control with high performance current vector control technology
	Instantaneous power failure	In the event of an instantaneous power failure, the voltage reduction is compensated by the load feedback energy, and the inverter continues to run for a short time.
	Fast current limiting	Avoid frequent overcurrent faults of the inverter
	Timing function	Timing control function: set the time range from 0.0 minutes to 6500.0 minutes
	communication method	RS-485
Running	Run command channel	Operation panel given, control terminal given, serial communication port given. Switchable in a variety of ways
	Frequency source	Multiple frequency sources: digital given, analog voltage given, analog current given, serial port given. Switchable in a variety of ways
	Auxiliary frequency source	10 auxiliary frequency sources. Auxiliary frequency fine-tuning and frequency synthesis can be flexibly realized
	Input terminal	37KW and below: 4 digital input terminals; 1 analog input terminal, support 0~10V voltage input or 4~20mA current input (AVI) 45KW and above: 6 digital input terminals, one of which supports high-speed pulse input up to 100kHz (S3 optional); 2 analog input terminals, 1 only supports 0~10V voltage input (FIV), 1 supports 0~10V voltage input or 4~20mA current input (FIC)
	Output terminal	37KW and below: 1 relay output terminal (RA, RC); 45KW and above: 1 digital output terminal (MO1) 1 relay output terminal (RA, RB, RC) 1 analog output terminal, support 0~20mA current output or 0~10V voltage output (FOV)
Keyboard display	LED display	Display parameters
	Key lock and function selection	Part or all of the keys can be locked, and the scope of action of some keys can be defined. to prevent misuse
	Protective function	Power-on motor short circuit detection, output phase loss protection, overcurrent protection, overvoltage protection, undervoltage protection, overheat protection, overload protection, etc.
Environment	Place of use	Indoor, no direct sunlight, no dust, corrosive gas, flammable gas, oil Fog, water vapor, dripping water or salt, etc.
	Altitude	Below 1000m (Above 1000m need to downshift)
	Ambient temperature	- 10℃ ~ + 40℃ (Ambient temperature is 40℃ ~ 50℃, please downshift to use)
	Humidity	Less than 95%RH , no condensation
	Vibration	Less than 5.9m/s^2 (0.6g)
	Storage temperature	- 20℃ ~ + 60℃
	Protection class	IP20

Selection Guide

Model	Input Current (A)	Output Power (kW)	Capacity (KVA)	Output Current (A)	Overload capacity (60s)(A)	Motor Equipped (kW)
Input Voltage(V): 1PH AC220V±15%						
FR0.4GC20-2J	5.4	0.4	1	2.5	3.75	0.4
FR0.75GC20-2J	7.2	0.75	2	5	7.5	0.75
FR1.5GC20-2J	10	1.5	2.8	7	10.5	1.5
FR2.2GC20-2J	16	2.2	4.5	11	16.5	2.2
FR3.7GC20-2J	17	3.7	7.2	16.5	24.75	3.7
Input Voltage(V): 3PH AC380V±15%						
FR0.4GC20-4J	3.4	0.4	2	1.2	1.8	0.4
FR0.75GC20-4J	3.8	0.75	2.2	2.5	3.75	0.75
FR1.5GC20-4J	5	1.5	3.2	3.7	5.55	1.5
FR2.2GC20-4J	5.8	2.2	4	5	7.5	2.2
FR3.7G/5.5PC20-4J	10.7	3.7	6.8	9	13.5	3.7
FR5.5G/7.5PC20-4J	14.6	5.5	10	13	19.5	5.5
FR7.5G/11PC20-4J	20	7.5	11.2	17	25.5	7.5
FR11G/15PC20-4J	26	11	17	25	37.5	11
FR15G/18.5PC20-4J	35	15	26	32	48	15
FR18.5G/22PC20-4J	38	18.5	32	37	55.5	18.5
FR22G/30PC20-4J	46	22	37	45	67.5	22
FR30G/37PC20-4J	62	30	52	60	90	30
FR37G/45PC20-4J	76	37	64	75	112.5	37
FR45G/55PC20-4J	92	45	72	90	135	45
FR55G/75PC20-4J	113	55	84	110	165	55
FR75G/90PC20-4J	157	75	115	150	225	75
FR90G/110PC20-4J	180	90	135	176	264	90
FR110G/132PC20-4J	214	110	160	210	315	110
FR132G/160PC20-4J	256	132	193	253	379.5	132
FR160G/185PC20-4J	307	160	230	300	450	160
FR185G/200PC20-4J	355	185	260	340	510	185
FR200G/220PC20-4J	385	200	290	380	570	200
FR220G/250PC20-4J	430	220	320	420	630	220
FR250G/280PC20-4J	475	250	365	470	705	250
FR280G/315PC20-4J	525	280	427	520	780	280
FR315G/350PC20-4J	610	315	460	600	900	315
FR350G/400PC20-4J	620	350	516	640	960	350
FR400G/450PC20-4J	670	400	600	690	1035	400
FR450G/500PC20-4J	790	450	638	790	1185	450
FR500G/560PC20-4J	865	500	725	860	1290	500
FR560G/630PC20-4J	960	560	812	950	1425	560
FR630G/710PC20-4J	1112	630	913	1100	1650	630

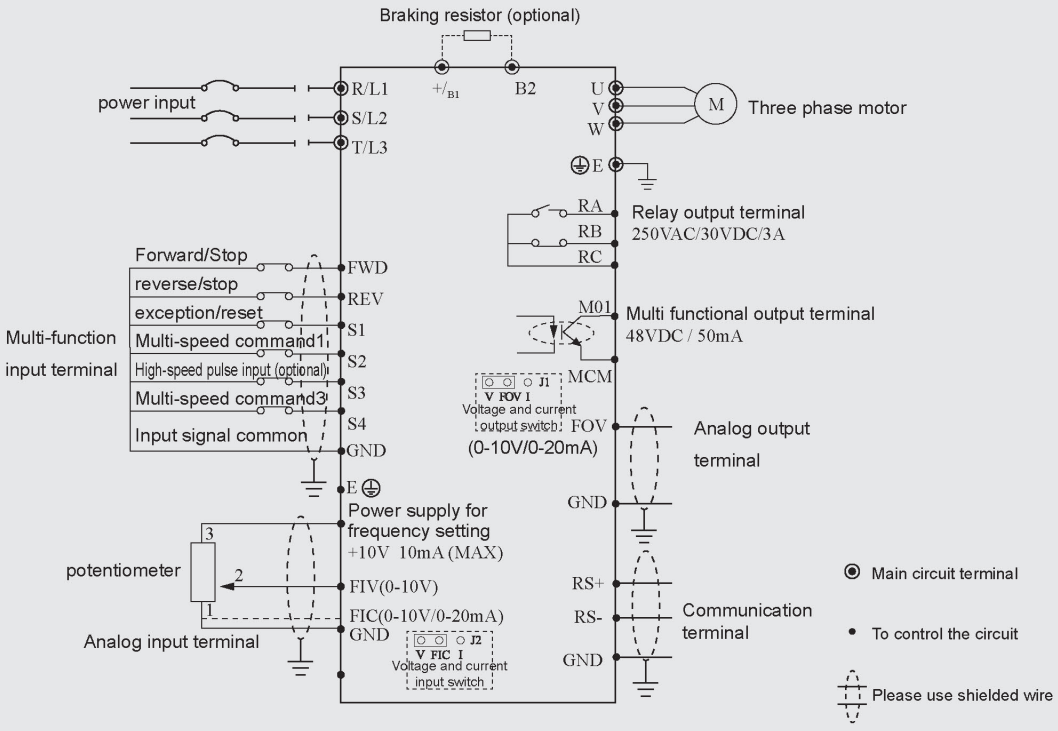
Wiring Diagram

(1) 0.75-37kW



Note: 220V/0.4~1.5kW and 380V/0.4~2.2kW do not include braking units;
220V/2.2-3.7kW and 380V/3.7-37kW built-in brake units.

(2) 45-630kW

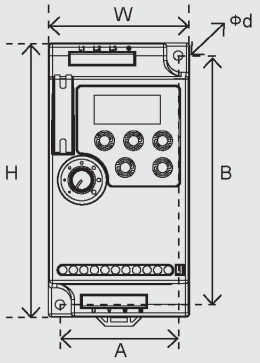


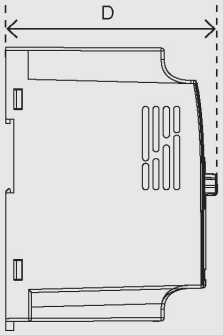
**Note 1: 45-500kW is an optional built-in brake unit;

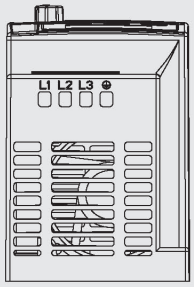
Dimension

Unit: mm

Model	Outline dimention (mm)			Installation Size (mm)			
	W(宽)	H(高)	D(厚)	A	B	Φd	
Input Voltage(V): 1PH AC220V±15%							
FR0.4GC20-2J	72	142	112.2	61	130	4.5	
FR0.75GC20-2J							
FR1.5GC20-2J							
FR2.2GC20-2J	85	180	116	72	167	5.5	
FR3.7GC20-2J							
Input Voltage(V): 3PH AC380V±15%							
FR0.4GC20-4J	72	142	112.2	61	130	4.5	
FR0.75GC20-4J							
FR1.5GC20-4J							
FR2.2GC20-4J							
FR3.7G/5.5PC20-4J	85	180	116	72	167	5.5	
FR5.5G/7.5PC20-4J							
FR7.5G/11PC20-4J	106	240	153	96	230	4.5	
FR11G/15PC20-4J							
FR15G/18.5PC20-4J	151	332	165.5	137	318	7	
FR18.5G/22PC20-4J							
FR22G/30PC20-4J							
FR30G/37PC20-4J	217	400	201	202	385	7	
FR37G/45PC20-4J							
FR45G/55PC20-4J	300	470	240	200	455	9	
FR55G/75PC20-4J							
FR75G/90PC20-4J	275	630	311.5	200	612	9	
FR90G/110PC20-4J							
FR110G/132PC20-4J							
FR132G/160PC20-4J	400	715	311.5	320	695	11	
FR160G/185PC20-4J							
FR185G/200PC20-4J	400	830	321.5	160+160	810	11	
FR200G/220PC20-4J							
FR220G/250PC20-4J							
FR250G/280PC20-4J	530	970	350	215+215	950	11	
FR280G/315PC20-4J							
FR315G/350PC20-4J							
FR350G/400PC20-4J	550	1180	400	230+230	1150	13	
FR400G/450PC20-4J							
FR450G/500PC20-4J							
FR500G/560PC20-4J							
FR560G/630PC20-4J	760	1400	450	325+325	1370	13	
FR630G/710PC20-4J							







Note: Among them, 55G/630G cannot be combined with G/P, please pay attention when ordering.

VPFUJI-C10 Series

Micro & Economic Inverter

- Compact size and low cost design;
- Terminals uncovered, easy for wiring
- DIN-rail mounting (below 5.5kW)
- Supports MODBUS via RS485
- Maintenance-free
- V/F control; Built-in PID control,
- Power range: 220V 0.4kW~2.2kW
  380V 0.4kW~315kW

Technology Features

Items		VPFUJI–C10
Power Supply	Rated voltage, Frequency	One-phase/Three-phase AC 220V/380V 50/60Hz
	Voltage Range	220V: 170~240V 380V: 330V~440V
Output	Voltage Range	220V: 0~220V 380V: 0~380V
	Frequency Range	0.10~400.00Hz
Control method		V/F control
Indication		Operating status/Alarm definition/interactive guidance: frequency setting, the output frequency/ current, DC bus voltage and so on.
Control Speculations	Output Frequency Range	0.10Hz~400.00Hz
	Frequency Setting Resolution	Digital input: 0.10Hz, analog input: 0.1% of maximum output frequency
	Output Frequency Accuracy	0.01Hz
	V/F Control	Setting V/F curve to satisfy various load requirements.
	Torque Boost	Auto increase: auto raise torque by loading Condition; Manual increase: enable to set 0.0~20.0% of raising torque.
	Multifunctional Input Terminal	Four multi-function input terminals, realizing functions including eight section speed control, Program running, four-section acceleration/deceleration speed switch, UP/DOWN function and emergency stop and other functions
	Multifunctional Output Terminal	1 multi-function output terminals for displaying of run, zero speed, external abnormity, program operation and other information and warnings.
	Acceleration/ Deceleration Time Setting	0~999.9s acceleration/deceleration time can be set individually.
Other functions	PID Control	Built-in PID control
	RS485	Standard RS485 communication function(MODBUS)
	Frequency Setting	Analog input: 0 ~ 10 V, 4~20mA Digital input: Operation panel or RS485 or UP/DOWN. Note: AVI terminals can be used to select an Analog voltage input (AV) and analog current input (AI) through the switch J2.
	Multi–speed	Four multifunction input terminals, 15 section speed can be set
	Automatic Voltage Regulation	Automatic voltage regulation function can be selected
	Counter	Built-in 2 group of counters
Protection/ Warning Function	Overload	150%, 60 second(Constant torque)
	Over Voltage	Over voltage protection can be set.

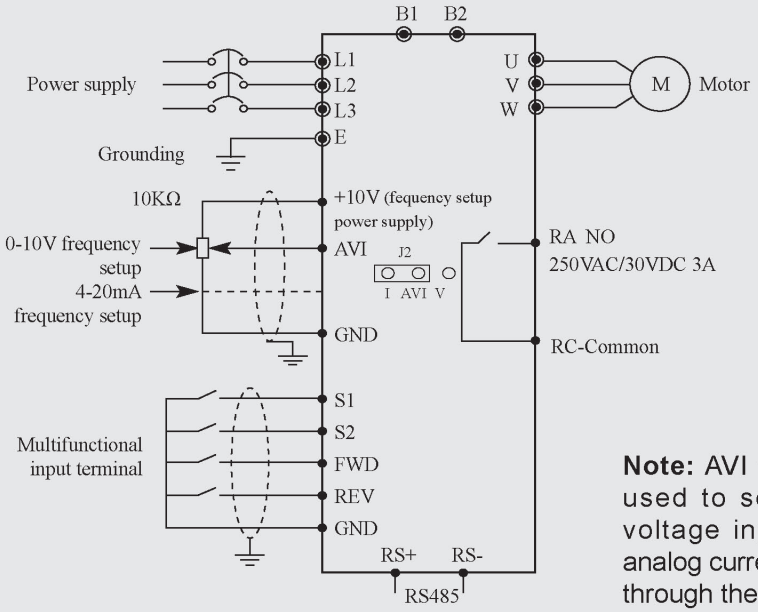
Items		VPFUJI–C10
Protection/ Warning Function	Under Voltage	Under voltage protection can be set
	Other Protections	Output short circuit, over current, and parameter lock and so on.
Environment	Ambient Temperature	-10°C to 40°C(non-freezing)
	Ambient Humidity	Max. 95% (non-condensing)
	Altitude	Lower than 1000m
	Vibration	Max.0.5G
Structure	Cooling Mode	Forced air cooling
	Protective Structure	IP 20
Installation		Wall-mounted or standard 35mm rail mounting (≤5.5kW)

Selection Guide

Model	Input Current (A)	Output Power (kW)	Capacity (KVA)	Output Current (A)	Overload capacity (60s)(A)	Motor Equipped (kW)
Input Voltage(V): 1PH AC220V±15%						
FR0.4GC10-2J	5.4	0.4	1.0	2.5	3.75	0.4
FR0.75GC10-2J	8.2	0.75	2.0	5	7.5	0.75
FR1.5GC10-2J	14	1.5	2.8	7	10.5	1.5
FR2.2GC10-2J	23	2.2	4.5	11	16.5	2.2
Input Voltage(V): 3PH AC380V±15%						
FR0.4GC10-4J	3.4	0.4	2	2	3	0.4
FR0.75GC10-4J	3.8	0.75	2.2	2.7	4.05	0.75
FR1.5GC10-4J	5.0	1.5	3.2	4.0	6	1.5
FR2.2GC10-4J	5.8	2.2	4.0	5.0	7.5	2.2
FR3.7G/5.5PC10-4J	10.7	3.7	6.8	8.6	12.9	3.7
FR5.5G/7.5PC10-4J	14.6	5.5	10	12.5	18.75	5.5
FR7.5G/11PC10-4J	20	7.5	11.2	17.5	26.25	7.5
FR11G/15PC10-4J	26	11	17	24	36	11
FR15G/18.5PC10-4J	35	15	26	33	49.5	15
FR18.5G/22PC10-4J	38	18.5	32	40	60	18.5
FR22G/30PC10-4J	46	22	37	47	70.5	22
FR30G/37PC10-4J	62	30	52	65	97.5	30
FR37G/45PC10-4J	76	37	64	80	120	37
FR45G/55PC10-4J	90	45	72	90	135	45
FR55G/75PC10-4J	105	55	84	110	165	55
FR75G/90PC10-4J	140	75	115	152	228	75
FR90G/110PC10-4J	160	90	135	176	264	90
FR110G/132PC10-4J	210	110	160	210	315	110
FR132G/160PC10-4J	240	132	193	255	382.5	132
FR160G/185PC10-4J	290	160	230	305	457.5	160

Wiring Diagram

When using a single-phase power supply, please access from terminals L1 and L2

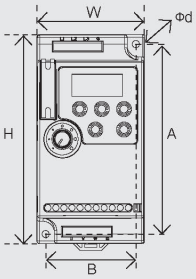


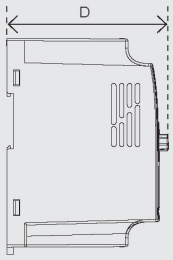
Note: AVI terminals can be used to select an analog voltage input (0-10V) and analog current input (4-20mA) through the switch J2.

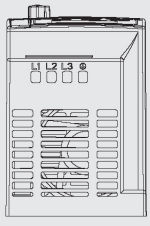
Dimension

Unit: mm

Model	W	H	D	A	B	Φd
FR0.4GC10-2J	68	132	102	120	57	4.5
FR0.75GC10-2J						
FR1.5GC10-2J						
FR2.2GC10-2J	72	142	112.2	130	61	4.5
FR0.4GC10-4J						
FR0.75GC10-4J						
FR1.5GC10-4J						
FR2.2GC10-4J						
FR3.7G/5.5PC10-4J	85	180	116	167	72	5.5
FR5.5G/7.5PC10-4J						
FR7.5G/11PC10-4J	106	240	153	230	96	4.5
FR11G/15PC10-4J						
FR15G/18.5PC10-4J	151	332	165.5	318	137	7
FR18.5G/22PC10-4J						
FR22G/30PC10-4J						
FR30G/37PC10-4J	217	400	201	385	202	7
FR37G/45PC10-4J						
FR45G/55PC10-4J	300	470	240	455	200	9
FR55G/75PC10-4J						
FR75G/90PC10-4J	275	630	310	612	200	9
FR90G/110PC10-4J						
FR110G/132PC10-4J						
FR132G/160PC10-4J	400	715	310	695	320	11
FR160G/185PC10-4J						







Note: 55G cannot be G/P, and 75P needs to be ordered separately.

VPFUJI-T90 Series

Advanced Vector Control Inverter

Open loop/closed loop vector control, V/F control (built-in PID) of synchronous and asynchronous motors

- Large torque output, which can ensure smooth starting of motor under heavy load
- Powerful function and outstanding performance, suitable for most general occasions
- Support multiple types of PG cards
- Support instant stop and instant start
- Compact structure, easy to install
- Power range: 220V: 0.4-7.5kW
  380V: 0.4-450kW

Technology Features

	Item	VPFUJI-T90
Basic function	Control Mode	V/F control Sensorless flux vector control (SVC) Close-loop vector control (FVC)(Above 3.7KW)
	Maximum frequency	600Hz
	Carrier frequency	0.5kHz~8kHz The carrier frequency is automatically adjusted based on the load features.
	Input frequency resolution	Digital setting: 0.01Hz Analog setting: Maximum frequency x 0.025%
	Start torque	G Type: 0.5Hz/150%(SVC) P Type: 0.5Hz/100%
	Speed range	1: 100 (SVC)
Basic function	Speed stability accuracy	±0.5%(SVC)
	Overload capacity	G Type: 60s for 150% of the rated current, 3s for 180% of the rated current. P Type: 60s for 120% of the rated current, 3s for 150% of the rated current.
	Torque boost	Auto-boost; Customized boost: 0.1%~30.0%
	V/F Curve	Straight-line V/F curve Multi-point V/F curve N-power V/F curve (1.2-power, 1.4-power, 1.6-power, 1.8-power, square)
	V/F separation	2 types: complete separation; half separation
	Ramp Mode	Straight-line ramp. Four groups of acceleration/deceleration time with the range of 0.00~6500.0s
	DC braking	DC braking frequency: 0.00Hz~Maximum frequency Braking time: 0.0s~36.0s Braking action current value: 0.0%~100.0%
	JOG control	JOG frequency range: 0.00Hz~50.00Hz. JOG acceleration/deceleration time: 0.0s~6500.0s.
	Simple PLC, Multiple preset speeds	It implements up to 16 speeds via the simple PLC function or combination of terminal states
	Onboard PID	It realizes process-controlled closed loop control system easily
	Auto voltage regulation(AVR)	It can keep constant output voltage automatically when the mains voltage changes
	Overvoltage/overcurrent stall control	The current and voltage are limited automatically during the running process so as to avoid frequent tripping due to over voltage/over current
	Rapid current limit	It helps to avoid frequent over current faults of the AC drive.
	Torque limit and control	It can limit the torque automatically and prevent frequent over current tripping during the running process. Torque control can be implemented in the FVC mode.
Individualized functions	High performance	Control of asynchronous motor are implemented through the high-performance current vector control technology
	Rapid dip ride through	The load feedback energy compensates the voltage reduction so that the AC drive can continue to run for a short time
	Support for multiple PG card	Support for differential input PG card,resolver PG card,rotating transformer PG card…
	Rapid current limit	It helps to avoid frequent over current faults of the AC drive.
	Timing control	Timing range: 0.0Min~6500.0Min
	Communication methods	RS - 485
Running	Command source	Operation panel/Control terminals/Serial communication port You can perform switchover between these sources in various ways.
	Frequency source	There are ten frequency sources. Digital setting, analog voltage setting, analog current setting, pulse setting, serial port setting. You can perform switchover in various ways.
	Auxiliary frequency source	There are ten auxiliary frequency sources. It can implement fine tuning of auxiliary frequency and frequency synthesis.

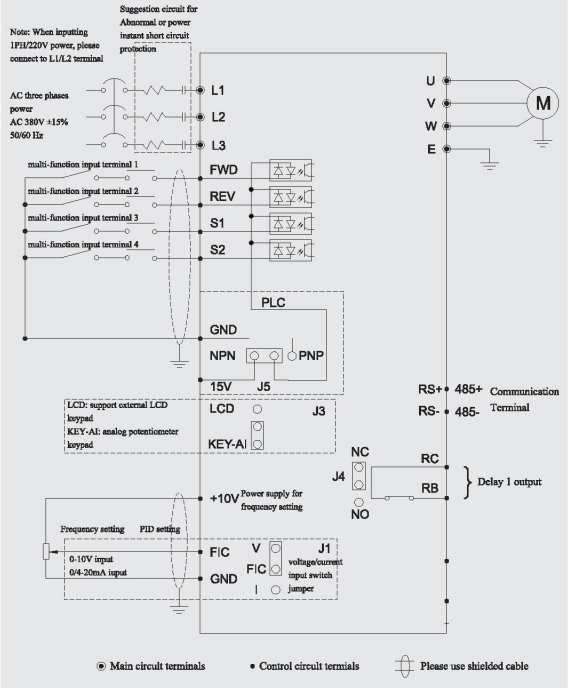
Item		VPFUJI-T90
Running	Input terminal	Standard: 4 digital input terminals(Below 5.5KW) /6 digital input terminals(Above 7.5KW); 1 analog input terminal(Below 5.5KW)/2 analog input terminals(Above 7.5KW); 1 voltage input (only support for 0~10V, above 7.5KW), 1 voltage input(0~10V) or current input (4~20mA)
	Output terminal	1 High-speed pulse output terminal (Open-collector) (Above 3.7KW) 1 replay output terminal (Below 5.5KW)/2 replay output terminals(Above 7.5KW) 1 analog output terminal(3.7KW~5.5KW)/2 analog output terminal(Above 7.5KW), Support for 4~20mA current output or 0~10V voltage output
Display and operation panel	LED display	It displays the parameters
	Key locking and function selection	It can lock the keys partially or completely and define the function range of some keys so as to prevent mal-function.
	Protection mode	Motor short-circuit detection at power-on, input/output phase loss protection, over current protection, over voltage protection, under voltage protection, overheat protection and overload protection
Environment	Installation location	Indoor, free from direct sunlight, dust, corrosive gas, combustible gas, oil smoke, vapor, drip or salt.
	Altitude	Lower than 1000m
	Ambient temperature	-10°C ~+ 40°C (de-rated if the ambient temperature is between 40°C ~50°C)
	Humidity	Less than 95%RH, without condensing
	Vibration	Less than 5.9m/s2(0.6g)
	Storage temperature	-20°C ~+ 60°C

Selection Guide

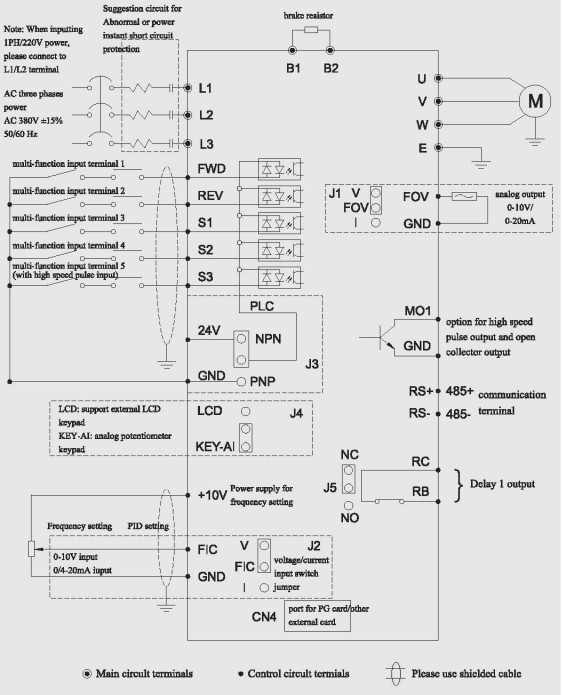
Model	Rated output power(kW)	Rated input current(A)	Rated output current(A)	Motor Power(KW)
Input voltage: 1PH AC220V±15%				
FR0.4GT90-2J	0.4	5.4	2.1	0.4
FR0.75GT90-2J	0.75	7.2	3.8	0.75
FR1.5GT90-2J	1.5	10	7.2	1.5
FR2.2GT90-2J	2.2	16	9	2.2
FR3.7GT90-2J	3.7	17	17	3.7
Input voltage: 3PH AC380V±15%				
FR0.4GT90-4J	0.4	3.4	1.5	0.4
FR0.75GT90-4J	0.75	3.8	2.1	0.75
FR1.5GT90-4J	1.5	5	3.8	1.5
FR2.2GT90-4J	2.2	5.8	5.1	2.2
FR3.7G/5.5PT90-4J	3.7/5.5	10/15	9/13	3.7/5.5
FR5.5G/7.5PT90-4J	5.5/7.5	15/20	13/17	5.5/7.5
FR7.5G/11PT90-4J	7.5/11	20/26	17/25	7.5/11
FR11G/15PT90-4J	11/15	26/35	25/32	11/15
FR15G/18.5PT90-4J	15/18.5	35/38	32/37	15/18.5
FR18.5G/22PT90-4J	18.5/22	38/46	37/45	18.5/22
FR22G/30PT90-4J	22/30	46/62	45/60	22/30
FR30G/37PT90-4J	30/37	62/76	60/75	30/37
FR37G/45PT90-4J	37/45	76/90	75/91	37/45
FR45G/55PT90-4J	45/55	90/105	91/112	45/55
FR55GT90-4J	55	105	112	55
FR75PT90-4J	75	140	150	75
FR75G/90PT90-4J	75/90	140/160	150/176	75/90
FR90G/110PT90-4J	90/110	160/210	176/210	90/110
FR110G/132PT90-4J	110/132	210/240	210/253	110/132
FR132G/160PT90-4J	132/160	240/290	253/304	132/160
FR160G/185PT90-4J	160/185	290/330	304/340	160/185
FR185G/200PT90-4J	185/200	330/370	340/377	185/200
FR200G/220PT90-4J	200/220	370/410	377/426	200/220
FR220G/250PT90-4J	220/250	410/460	426/465	220/250
FR250G/280PT90-4J	250/280	460/500	465/520	250/280
FR280G/315PT90-4J	280/315	500/580	520/585	280/315
FR315G/350PT90-4J	315/350	580/620	585/650	315/350
FR350G/400PT90-4J	350/400	620/670	650/725	350/400
FR400G/450PT90-4J	400/450	670/790	725/820	400/450
FR450G/500PT90-4J	450/500	790/835	820/880	450/500

Wiring Diagram

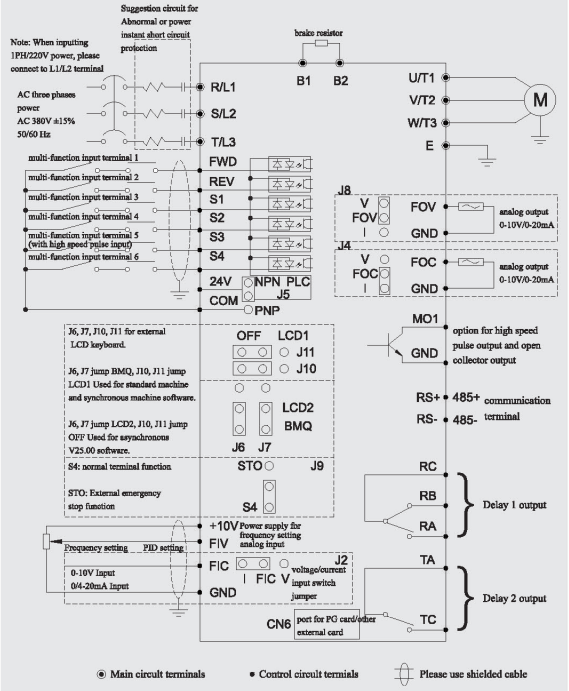
1. 1PH/220V 0.4-2.2kW&3PH/380V 0.4-2.2kW (VF control)



2. 1PH/220V 0.4-3.7kW&3PH/380V 0.4-5.5kW (vector control)

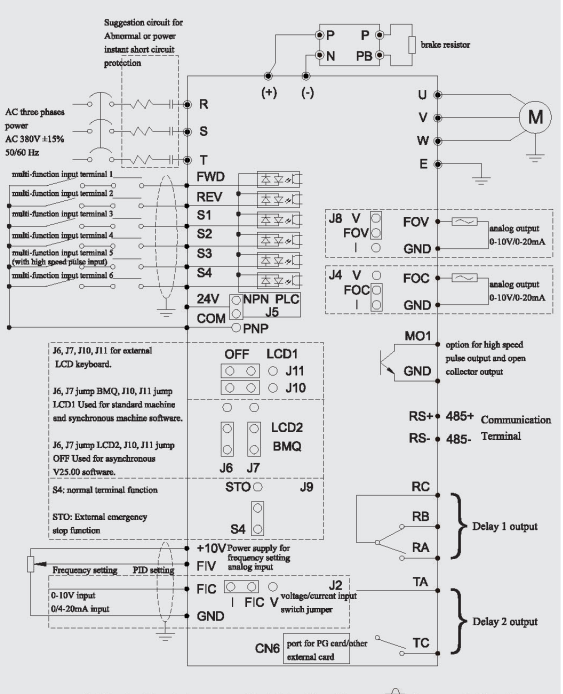


3. 220V/5.5-7.5kW&380V/7.5kW-160kW

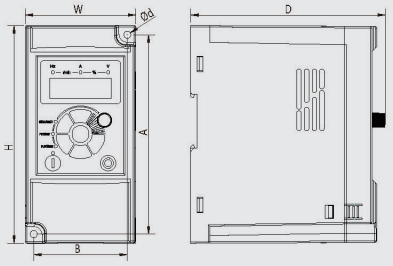
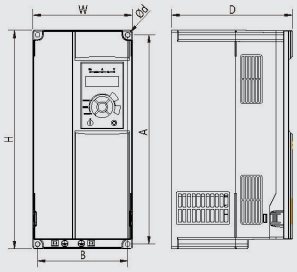


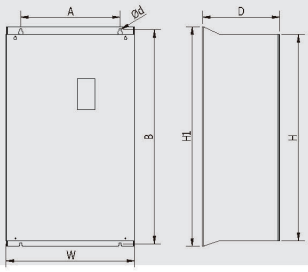
Note: 220V/ 5.5-7.5kw &380V/ 7.5-37kw standard built-in braking unit, 45kW-160kW braking unit optional.

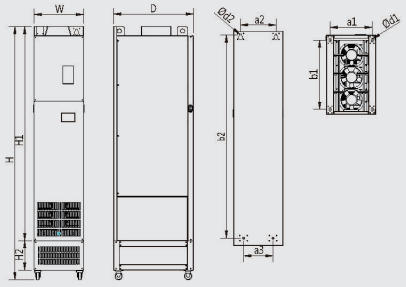
4. 380V/185kW-450kW



Dimension

SIZE	Model	W	H	D	A	B	Φd	Installation
A	FR0.4GT90-2J	72	142	127	130	61	4.5	
	FR0.75GT90-2J							
	FR1.5GT90-2J							
	FR2.2GT90-2J-VF							
	FR0.4GT90-4J							
	FR0.75GT90-4J							
	FR1.5GT90-4J							
	FR2.2GT90-4J							
	FR2.2GT90-2J	85	180	131	167	72	5.5	
	FR3.7GT90-2J							
	FR3.7G/5.5PT90-4J							
	FR5.5G/7.5PT90-4J							
B	FR7.5G/11PT90-4J	106	240	168	230	96	4.5	
	FR11G/15PT90-4J							
	FR15G/18.5PT90-4J	151	332	183	318	137	7	
	FR18.5G/22PT90-4J							
	FR22G/30PT90-4J							
	FR30G/37PT90-4J	217	400	216	385	202	7	
	FR37G/45PT90-4J							

SIZE	Model	W	H	H1	D	A	B	Φd	Installation
C	FR45G/55PT90-4J	300	440	470	240	200	455	9	
	FR55GT90-4J								
	FR75PT90-4J								
	FR75G/90PT90-4J	275	590	630	310	200	612	9	
	FR90G/110PT90-4J								
	FR110G/132PT90-4J								
	FR132G/160PT90-4J	400	675	715	310	320	695	11	
	FR160G/185PT90-4J								

SIZE	Model	Outline dimention (mm)					Installation Size (mm)			Wall-mounted Size (mm)				Installation
		W	H	H1	H2	D	a1	b1	d1	a2	a3	b2	d2	
D	FR185G/200PT90-4J	300	1445	1180	200	500	250	430	14	220	150	1135	13	
	FR200G/220PT90-4J													
	FR220G/250PT90-4J													
	FR250G/280PT90-4J	330	1595	1330	200	545	280	475	14	220	185	1275	13	
	FR280G/315PT90-4J	325	1495	1230	200	545	275	470	14	225	185	1175	14	
	FR315G/350PT90-4J													
	FR350G/400PT90-4J	335	1720	1455	200	545	285	470	14	240	200	1380	14	
	FR400G/450PT90-4J													
	FR450G/500PT90-4J													

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