Variable Frequency Speed

0.75kW-4kW INVERTER

Model	kW	HP	Power capacity (kVA)	Rated input current(A)	Rated output current(A)	Integrated with brake function
Input：Single-phase 200~240V & Output Three-phase 0~Input						
VC-2SR75B-E	0.75	1	1.5	8.2	4.5	YES
VC-2S1R5B-E	1.5	2	3	14	7	YES
VC-2S2R2B-E	2.2	3	4	23	9.6	YES
Input：Three-phase 380~480V & Output Three-phase 0~Input						
VC-4TR75B-E	0.75	1	1.5	3.4	2.5	YES
VC-4T1R5B-E	1.5	2	3	5	3.8	YES
VC-4T2R2B-E	2.2	3	4	5.8	5.1	YES
VC-4T004B-E	4	5.5	5.9	10.5	9	YES

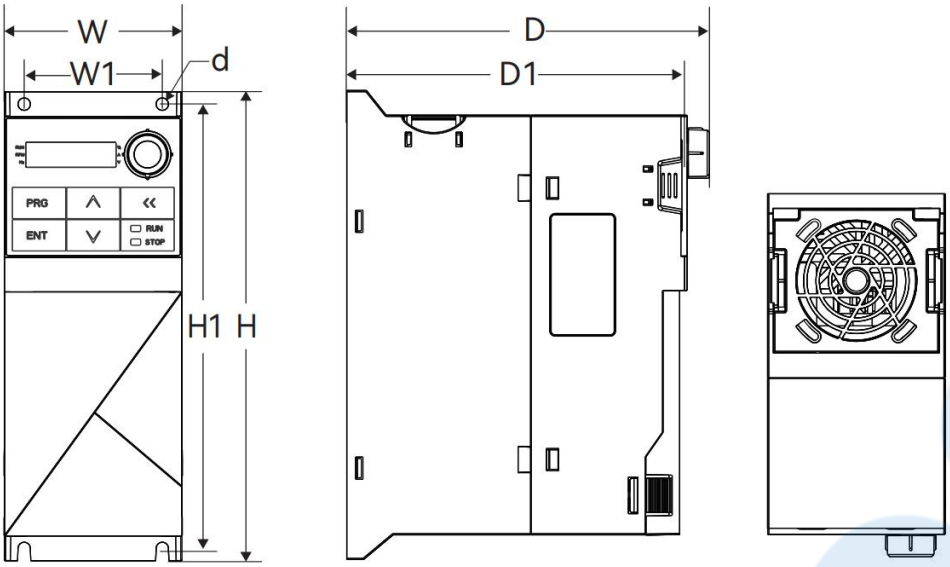
Specification

Item		Specification	
Controlled Characteristic	Control mode	V/F	SVC
	Starting torque	1Hz/100% Rated torque	0.5Hz/150% Rated torque
	Range of speed regulation	1:50	0.111111111
	Rotating speed	≤1% Rated synchronous speed	≤0.5% Rated synchronous speed
	Carrier srequency	0.6kHz~16kHz	
	Overload capacity	150% Rated current 60s；180% Rated current 2s	
	Torque boost	Automatic torque increase； Manual torque increase 0.1～30.0%	
I/O	The range of input voltage	Single-phase 200V-240V ； Three-phase 380V-480V Allowable fluctuation range：-15%～10%	
	The range of input frequency	50/60Hz Allowable fluctuation range：±5%	
	The range of output voltage	0～Input,Fluctuation range：＜5%	
	The range of output frequency	SVC:0-500Hz V/F：0-1000Hz Fluctuation range：±5% of Maximum frequency	
Run Control	Run command channel	3 kinds of channels: Operation panel setting, Control terminal setting, Serial communication port given, Can change by different ways	
	Frequency source	Digital setting, panel pulse potentiometer setting, linear voltage setting, curve voltage setting, analog current setting, serial communication setting, etc. Can be switched in a variety of ways	
	Auxiliary frequency source	Multiple auxiliary frequency sources. Frequency synthesis and frequency fine-tuning can be performed	
	Digital input terminal	There are four DI1-DI4, of which DI4 supports high-speed pulse input, up to 20kHz input, and supports NPN PNP switching	
	Analog input terminal	Two AI1-AI2 (You can change the terminal function to DI input by setting parameters) The AI2 can switch the current/voltage input through the jumper cap	
Basic Function	DC braking function	DC braking frequency:0.00 Hz ~ 60.00 Hz;Braking time:0.0 s ~ 60.0s Braking action current value:0.0% ~ 150.0%	
	V/F curve	Linear, multi-point type, square type, 1.1-1.9 power curve, V/F completely separated type	
	Acceleration and deceleration curves	Linear or S-curve acceleration and deceleration mode, acceleration and deceleration time range：0~6500s	
	Multi-speed operation	Up to 16 segment speeds are achieved through the control terminal	
	External keyboard	Standard, can upload and down-transfer inverter function code	

		information, to achieve fast parameter replication
	Built-in PID	It is convenient to realize the closed-loop control system of process control
	Automatic voltage adjustment AVR	Standard, automatic current and voltage limit during operation to prevent frequent overvoltage trip
	Over voltage over loss rate control	Automatic current and voltage limit during operation to prevent frequent overvoltage trip
	Fast current limiting function	The standard configuration minimizes overcurrent faults and protects the normal operation of the equipment
	Torque qualification and control	Automatic torque limit during operation to prevent frequent overcurrent tripping
	Power on the safety self-test of peripheral devices	It can realize the safety detection of peripheral devices such as grounding and short circuit
	Timing control function	Timing control function: set time range 0h ～ 65000h
	Defensive function	Power-on motor short circuit detection, input and output phase loss protection, over current protection, over voltage protection, under voltage protection, overheat protection, overload protection
Display and Keyboard Operation	LED display	5 digit LED display
	Parameter locking function	Set parameter read-only control to prevent misoperation
Service Environment	Place of use	Indoor, free from direct sunlight, no dust, corrosive gas, flammable gas, oil mist, water vapor, dripping or salt
	Altitude	Less than 1000m; When the sea level is higher than 1000m, the sea level must be reduced by 1% for every 100m rise. The maximum sea level is 2000m
	Environment temperature	-20℃~45℃,Derating is required when the temperature exceeds 45℃. For every 1℃ increase in the ambient temperature, the derating is about 1%. The maximum ambient temperature is 50℃
	Humidity	≤95%RH，Avoid condensation
	Vibration	Vibration acceleration less than 0.6g
	Storage temperature	-25℃~60℃



Model	External Dimension				Installation Dimension		Hole Size
	H	W	D	D1	H1	W1	d
VC-2SR75B-E VC-2S1R5B-E VC-2S2R2B-E	190	72	146	138	180	56	5
VC-4TR75B-E VC-4T1R5B-E VC-4T2R2B-E VC-4T004B-E	190	72	146	138	180	56	5



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