

| Model  | kW   | HP  | Power capacity (kVA) | Rated input current(A) | Rated output current(A) | Integrated with brake function |
|--|------|-----|----------------------|------------------------|-------------------------|--------------------------------|
| Input: Three-phase 380~480V & Output Three-phase 0~Input |      |     |                      |                        |                         |                                |
| VC-4T5R5B-E  | 5.5  | 7.5 | 8.9                  | 14.6                   | 13                      | YES                            |
| VC-4T7R5B-E  | 7.5  | 10  | 11                   | 20.5                   | 17                      | YES                            |
| VC-4T011B-E  | 11   | 15  | 17                   | 26                     | 25                      | YES                            |
| VC-4T015B-E  | 15   | 20  | 21                   | 35                     | 32                      | YES                            |
| VC-4T018R5B-E  | 18.5 | 25  | 24                   | 38.5                   | 37                      | YES                            |
| VC-4T022B-E  | 22   | 30  | 30                   | 46.5                   | 45                      | YES                            |
| VC-4T030B-E  | 30   | 40  | 40                   | 62                     | 60                      | YES                            |
| VC-4T037B-E  | 37   | 50  | 57                   | 76                     | 75                      | YES                            |

## Specification

| Item                      |                                      | Specification  |
|---------------------------|--------------------------------------|--|
| Controlled Characteristic | Control mode                         | V/F  |
|                           | Starting torque                      | 1Hz/100% Rated torque  |
|                           | Range of speed regulation            | 1:50   |
|                           | Rotating speed                       | ≤1% Rated synchronous speed  |
|                           | Carrier frequency                    | 0.6kHz~16kHz   |
|                           | Overload capacity                    | 150% Rated current 60s; 180% Rated current 2s  |
| I/O                       | Torque boost                         | Automatic torque increase; Manual torque increase 0.1~30.0%  |
|                           | 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<br>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<br>Service Environment | LED display   | 5 digit LED display  |
|   | Parameter locking function                          | Set parameter read-only control to prevent misoperation  |
|   | 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<br>d |
|---------------|--------------------|-----|-------|-------|------------------------|-----|----------------|
|               | H                  | W   | D     | D1    | H1                     | W1  |                |
| VC-4T5R5B-E   | 250                | 95  | 153.6 | 145   | 240                    | 80  | 5              |
| VC-4T7R5B-E   |                    |     |       |       |                        |     |                |
| VC-4T011B-E   | 334                | 120 | 188.6 | 180   | 322                    | 100 | 6              |
| VC-4T015B     |                    |     |       |       |                        |     |                |
| VC-4T018R5B-E | 388                | 145 | 195.1 | 182.7 | 374                    | 116 | 6              |
| VC-4T022B-E   |                    |     |       |       |                        |     |                |
| VC-4T030B-E   | 450                | 180 | 204   | 195   | 430                    | 144 | 7              |
| VC-4T037B-E   |                    |     |       |       |                        |     |                |

