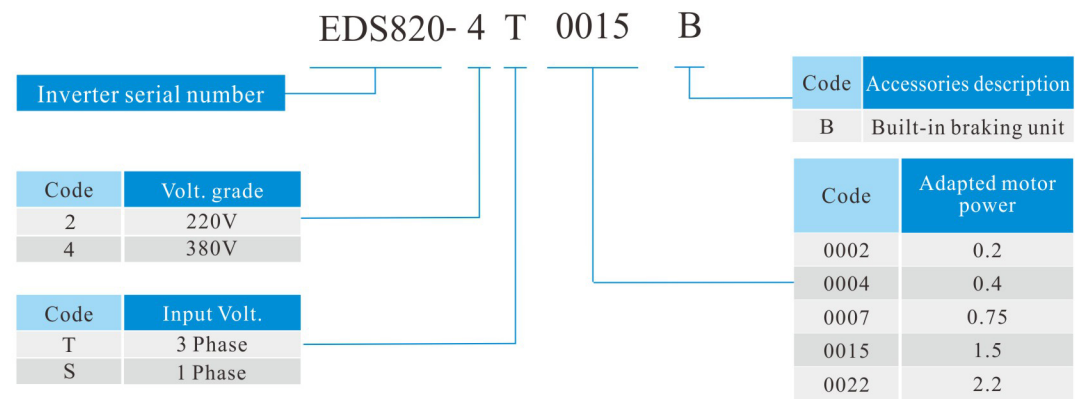


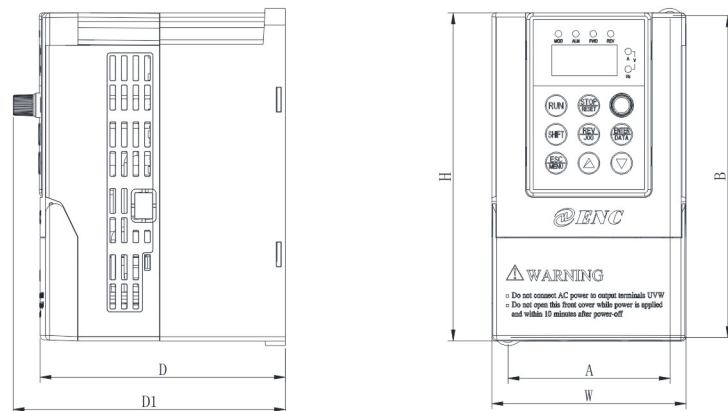
Inverter model description



Inverter model explanation

Inverter model	Rated Capacity(KVA)	Rated output current(A)	Adapted motor(KW)
EDS820-2S0002B	0.6	1.6	0.2
EDS820-2S0004B	1.1	3	0.4
EDS820-2S0007B	1.8	4.7	0.75
EDS820-2S0015B	2.8	7.5	1.5
EDS820-4T0007B	1.5	2.3	0.75
EDS820-4T0015B	2.4	3.7	1.5
EDS820-4T0022B	3.3	5	2.2

Dimensions



Inverter model	W (mm)	H (mm)	D (mm)	D1 (mm)	A (mm)	B (mm)	Installation hole diameter (mm)
EDS820-2S0002B	89	148.5	112.5	124.7	74	138	5
EDS820-2S0004B							
EDS820-2S0007B							
EDS820-2S0015B							
EDS820-4T0007B							
EDS820-4T0015B							
EDS820-4T0022B							



VFD/PLC/ Servo Drive



EDS820series  
mini vector inverter

Brand-new upgrade, ingenious and powerful

Analog value accuracy  
increased by 4 times

The accuracy of analog value  
VC1 and CCI is improved to  
1/4000;

4  
times

Increased capacitance

The capacitance capacity of  
many models has increased  
by more than 20%;

20%  
or more



Enhanced braking ability

The capacity of the energy-  
consuming brake tube is  
increased, allowing external  
resistors with smaller  
resistances to be connected;



Strong deceleration  
performance

Adopt optimized braking  
algorithm;



More torque at low speed

Uses high-precision  
current sensors to support  
asynchronous motor flux  
vector control;



Enhanced reliability  
and immunity

The external terminal ground  
COM is isolated from the  
digital GND;



The system is more  
energy efficient

Support P+P-common bus  
wiring;



Wiring is more convenient

Full-power built-in braking  
unit, the braking interface is  
led out from the front;  
The main circuit adopts  
European terminals;

01

More compact size

The smallest model  
supports 4T-2.2KW

02

Parameter copy function

Support parameter  
copy(EN-LED5-D)

03

Reduce fan noise

Optimized heat dissipation  
structure, some models  
have lower fan noise

04

Adopt full module solution

Power modules all use full-  
module scheme design

Shenzhen Encom Electric Technologies CO.,LTD.

Floor 6, Building 2 West, Pingshan Minqi Science & Technology  
Park, Taoyuan Str. Nanshan District, Shenzhen, China



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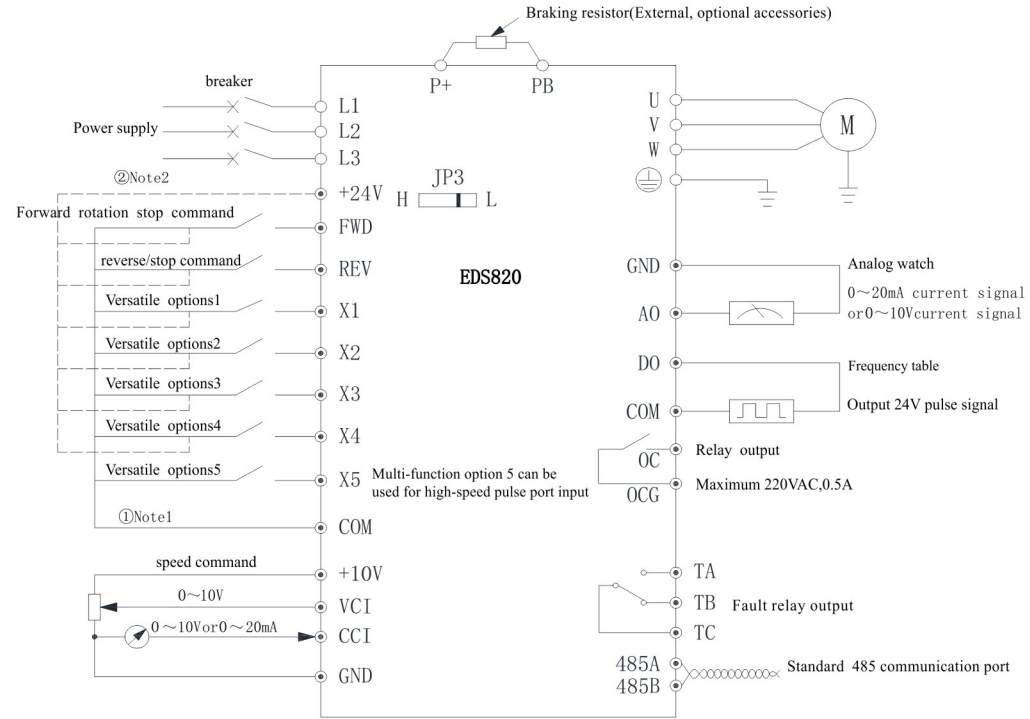




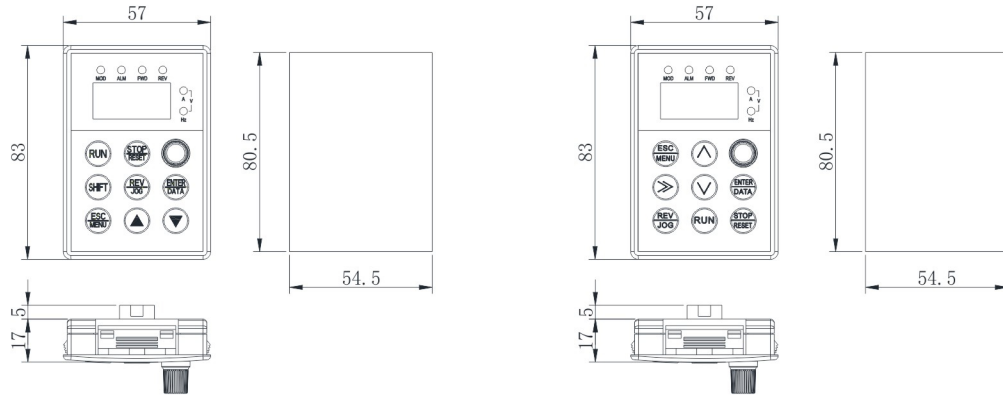
Product technical indicators and specifications

Item		Item description
Input	Rated voltage, frequency	3 phase 380V, 50Hz/60Hz    1 phase 220V, 50Hz/60Hz
	Allowed Volt. range	3 phase volt: 320~460V 1 phase volt: 200~260V
Output	Volt.	380 Grade: 0~380V    220 Grade: 0~220V
	Frequency	0~500Hz
	Over loading capacity	150% rated current for 1 minute, 200% rated current for 0.5 seconds.
Control performance	Control mode	1. Optimal space voltage vector SVPWM constant voltage frequency ratio V/F control 2. Open-loop flux vector control
	Speed regulation range	1:100
	Start-up torque	Up to 150% of rated torque at low frequency
	Running speed, Steady state accuracy	≤±0.5% rated synchronous speed
	Frequency accuracy	Digital setting: maximum frequency × ±0.01%; analog setting: maximum frequency × ±0.5%
	Frequency resolution	Simulation settings
		Digital settings
		External pulse
	Torque boost	Automatic torque increase, manual torque increase 0.1~30.0%
	V/F curve (volt. frequency characteristics)	The rated frequency can be set arbitrarily between 5Hz ~ 500Hz, and four types of curves can be selected: constant torque, decreasing torque 1, decreasing torque 2, and decreasing torque 3, a total of 4 types of curves.
	Acceleration and deceleration curve	Two methods: linear acceleration and deceleration and S-curve acceleration and deceleration; seven acceleration and deceleration times, time unit (minutes/seconds) optional, up to 6000 minutes
	Brake	Energy consumption braking
		DC braking
	Jog	Jog frequency range: 0.50Hz~200.00Hz; The jog acceleration and deceleration time can be set from 0.1 to 60.0 seconds.
	Multi-speed operation	Realize multi-speed operation through built-in PLC or control terminal
	Built-in PID controller	Can easily form a closed-loop control system
	Automatic volt. Adjust(AVR)	When the grid voltage changes, it can automatically keep the output voltage constant
	Automatic current limit	Automatically limit the current during operation to prevent frequent overcurrent fault tripping
Run function	Run command on given channel	Operation keyboard setting, control terminal setting, serial port setting
	Running frequency given channel	Digital setting, analog setting, pulse setting, serial port setting, combined setting, can be switched at any time through a variety of methods
	Pulse output channel	0~20KHz pulse square wave signal output, which can realize the output of physical quantities such as set frequency and output frequency.
	Analog output channel	1 channel analog signal output channel, of which the AO channel can be selected from 0 to 20mA or 0 to 10V, which can realize the output of physical quantities such as set frequency and output frequency.
Keypad	LED display	Can display 14 parameters such as set frequency, output frequency, output voltage, output current, etc.
	Button locked	Achieve partial or complete locking of buttons (analog potentiometer has no locking)
Protective function		Over-current protection, over-voltage protection, under-voltage protection, over-heating protection, over-load protection, phase loss protection, rapid current limiting, etc.
Optional accessories		Braking components, remote control keyboard, remote control keyboard connecting cable, etc.
Environment	Application site	Indoors, away from direct sunlight, no dust, corrosive gases, flammable gases, oil mist, water vapor, dripping water or salt, etc.
	Altitude	Below 1000 meters
	Ambient temperature	-10℃~+40℃(The ambient temperature is between 40℃ and 50℃, please reduce the volume or enhance heat dissipation.)
	Ambient humidity	Less than 95%RH, no drop condensation
	Vibration	Less than 5.9 M/S <sup>2</sup> (0.6g)
Structure	Storage temperature	-40℃~+70℃
	Protection level	Ip20
	Installation method	Wall-mounted

Wiring diagram



Overall dimensions of operating keyboard and keyboard installation box(unit:mm)



▲ Kb5 Keyboard and keyboard opening size diagram

▲ EN-LED5-D Keyboard and keyboard opening size diagram

- (1)The KB5 keyboard is the standard keyboard of this machine, with an analog potentiometer, and does not support upload and download functions.
- (2)EN-LED5-D is an optional keyboard for this machine, with a digital potentiometer and supports upload and download functions. If you need upload and download functions, please order the keyboard separately.

Application scope

