



EDS800 Universal Mini Inverter

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About us

Company introduction

Shenzhen Encom Electric Technologies CO., LTD is a state-level high-tech enterprise with independent intellectual property rights, focusing on industrial automation products' development, production and sales. The main products include frequency inverter/ac drive, servo controller, PLC, new energy systems.

ENC company was established in 2004, has passed ISO9001: 2008 quality management system certification and the European Union CE certification, won the National Innovation Fund, the Shenzhen strategic emerging industries fund, product innovation award, the most investment value award and repeatedly won "China top ten low-voltage inverter domestic brands" title.



1. Won National Innovation Fund enterprise, China's high-tech enterprise
2. Repeatedly won "China top ten domestic brands" title
3. With more than 13 years of rich experience R&D team
4. With completely independent intellectual property rights, has dozens of patents
5. Master the world's leading asynchronous, synchronous vector control technology and torque control technology
6. ISO9001:2008 system certification unit, strict and standard information quality control system
7. Has more than 30 offices in China
8. ENC provide quality products and services for more than 30 countries' industrial user

Product introduction

compact and convenient



1. Small size (124.7*89*148.5mm), high cost performance;
2. Can make up of inverter network independently and can set to be mainframe or sub-device;
3. With potentiometer, keyboard can be pulled outside;
4. With RS485 communication port;
5. Pulse/analog input output channels;
6. 16 segments speed control;
7. Multiple running frequency/command specified channels;
8. Space voltage vector control SVPWM;
9. Hi-performance isolating OC output, AC or DC load of 220V/0.5A can be connected;
10. Traversal function can be widely applied to all kinds of spinning devices;
11. Built-in Braking unit;
12. Built-in user's timer/counter.

Power range: 1 phase 220V 0.2kw~2.2kw ; 3 phase 380V 0.75kw~3.7kw .

Typical application industry

Sewage treatment



Textile machinery



CNC machine tools



Color steel tile



Ceramic machinery



Food machinery



Stone processing

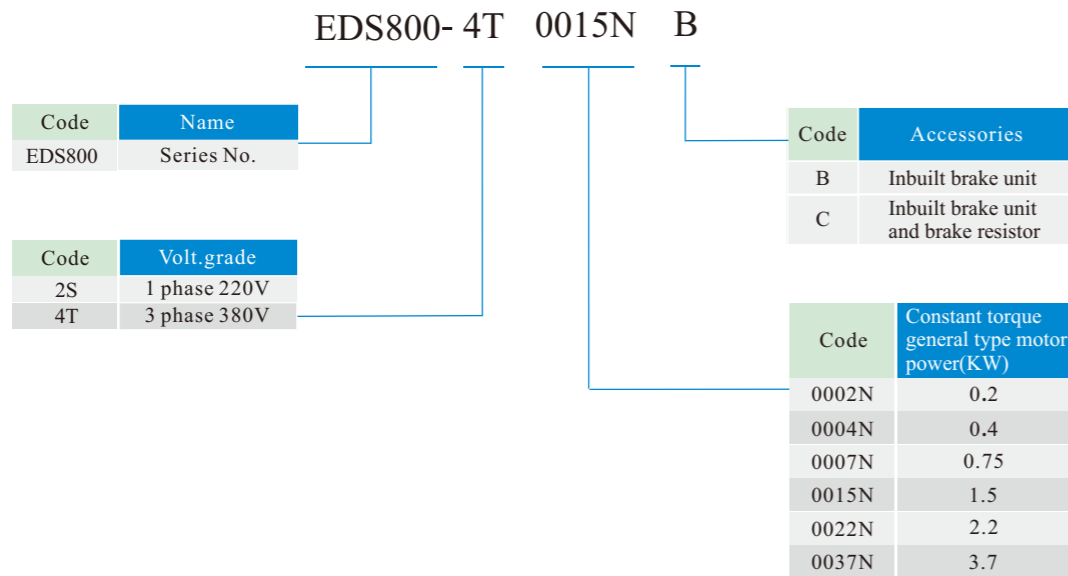


Paper machinery



Industrial air conditioners





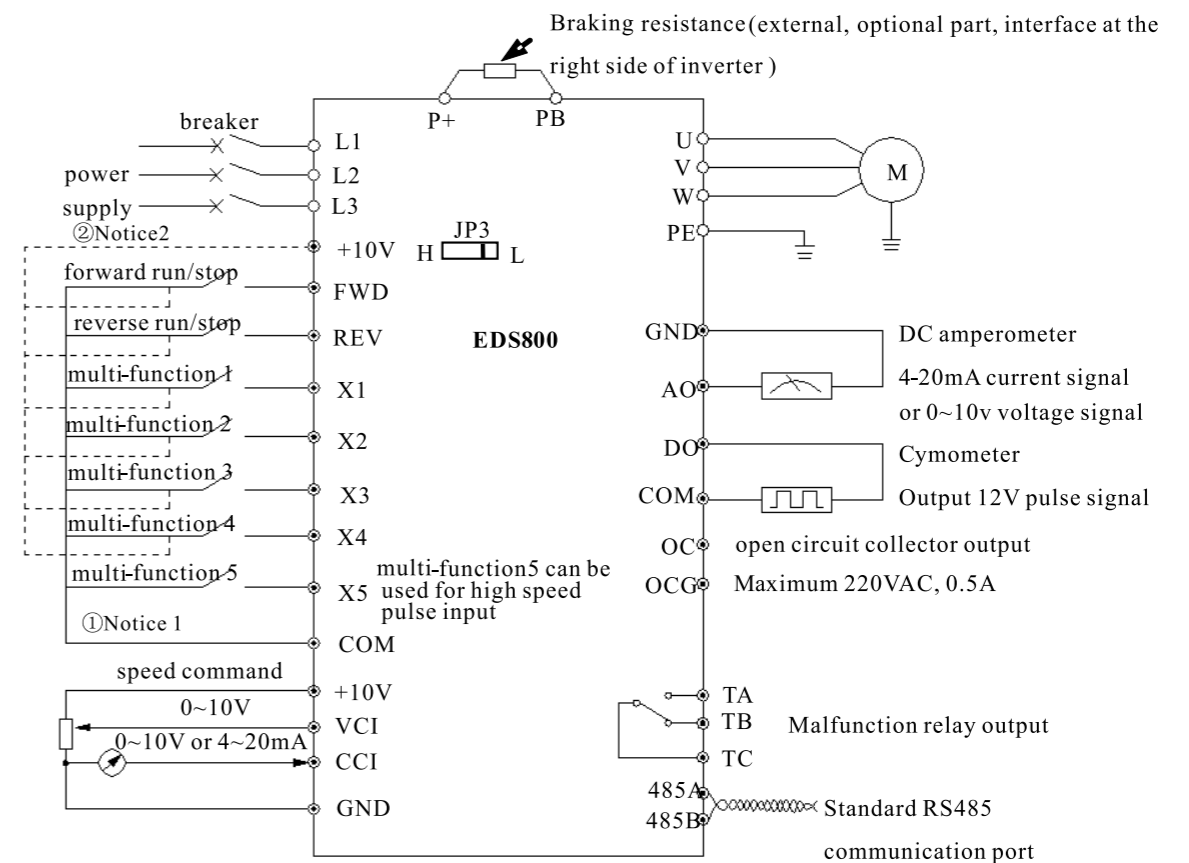
EDS800-2S0002 ~EDS800-4T0037 mounting size

Inverter type	W (mm)	H (mm)	D (mm)	D1 (mm)	A (mm)	B (mm)	Fixing aperture (mm)	Packing Size (cm)	Gross weight (kg)	Graph. no.
EDS800-2S0002N	89	148.5	112.5	124.7	74	138	5	17*19*18	1.5	Graph a
EDS800-2S0004N	89	148.5	112.5	124.7	74	138	5	17*19*18	1.5	Graph a
EDS800-2S0007N	89	148.5	112.5	124.7	74	138	5	17*19*18	1.5	Graph a
EDS800-2S0015N	89	148.5	112.5	124.7	74	138	5	17*19*18	1.5	Graph a
EDS800-2S0022N	125	170	152.1	164.1	114.5	158	5	22*18*20	2.5	Graph b
EDS800-4T0007N	89	148.5	112.5	124.7	74	138	5	17*19*18	1.5	Graph a
EDS800-4T0015N	89	148.5	112.5	124.7	74	138	5	17*19*18	1.5	Graph a
EDS800-4T0022N	125	170	152.1	164.1	114.5	158	5	22*18*20	2.5	Graph b
EDS800-4T0037N	125	170	152.1	164.1	114.5	158	5	22*18*20	2.5	Graph b

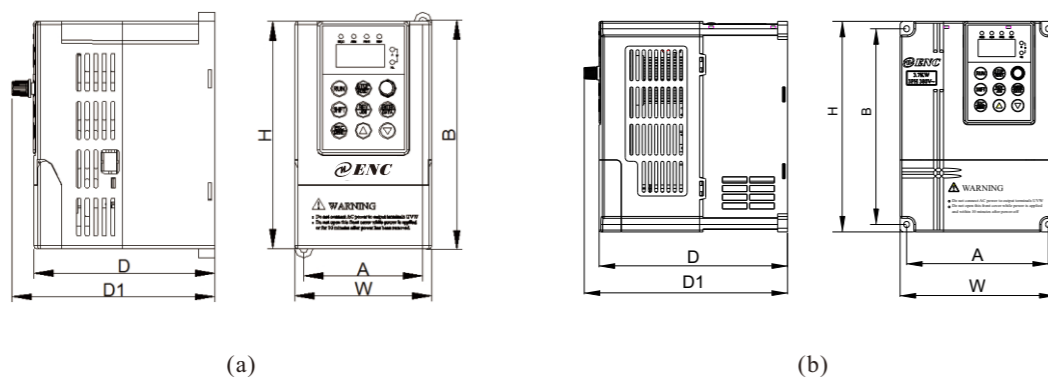
W Model Description

Inverter type	Rated Power (KVA)	Rated output current (A)	Adapted motor(KW)
EDS800-2S0002N	0.6	1.6	0.2
EDS800-2S0004N	1.1	3	0.4
EDS800-2S0007N	1.8	4.7	0.75
EDS800-2S0015N	2.8	7.5	1.5
EDS800-2S0022N	3.8	10	2.2
EDS800-4T0007N	1.5	2.3	0.75
EDS800-4T0015N	2.4	3.7	1.5
EDS800-4T0022N	3.3	5	2.2
EDS800-4T0037N	5.6	8.5	3.7

W Wiring diagram



W Outer size and gross weight



Item		Item description	
Input	Rated volt., frequency	3 phase 380V, 50HZ/60HZ; single phase 220V, 50HZ/60HZ	
	Allowed work volt. range	3 phase 380V, 320V~460V; single phase 220V, 200V~260V	
output	Voltage	380V grade: 0~380V; 220V grade: 0~220V	
	Frequency	0HZ~400HZ	
	Over loading capacity	150% of rated current for 1 minute; 200% of rated current for 0.5s	
Control performance	Control mode	Optimal space voltage vector SVPWM constant voltage frequency ratio V/F control	
	Speed regulation range	1:100	
	Start-up torque	100% of rating torque at low frequency	
	Running speed stable state precision	≤ ±0.5% of rating synchronous speed	
	Frequency precision	Digital setting: max. frequency×±0.01%; analog setting: max. frequency×±0.5%	
	Frequency resolution	Analog setting	0.1% of max. frequency
		Digital setting	0.01HZ
		Exterior pulse	0.5% of max. frequency
	Torque boost	Automatic torque boost, manual torque boost 0.1%~20.0%	
	V/F curve (volt. frequency characteristic)	Set rating frequency randomly at range of 5~400Hz, can choose constant torque, degressive torque 1, degressive torque 2, degressive torque 3 and user defined V/F curve in total 4	
	Accelerating decelerating curve	Two modes: straight line accelerating decelerating, and S curve accelerating decelerating; 7 kinds of accelerating decelerating time (unit of minute/second can be optioned),max is 6000 minutes.	
	Brake	Power consumption brake	Built-in braking unit, exterior braking resistance
		DC brake	Optional start up and stop, action frequency 0~15Hz, action volt. 0~15%, action time 0~20.0 s
	Jog	Jog frequency range:0.50Hz~50.00Hz; jog accelerating decelerating time 0.1~60.0s can be set	
	Multi-section speed running	Realized by interior PLC or control terminal	
	Interior PID controller	Be convenient to make closed-loop system	

Item		Item description
Control performance	Automatic energy save running	Optimize V/F curve automatically based on the load to realize power save running
	Automatic volt. regulation (AVR)	Can keep constant output volt. When power source voltage varies.
	Automatic current limiting	Limit running current automatically to avoid frequent over-current which will cause trip
Running function	Running order specified channel	Keypad provision, control terminal provision, serial port provision
	Running frequency specified channel	Digital provision, analog provision, impulse provision, serial port provision, combined provision, can be switched at any time by kinds of method
	Pulse output channel	Impulse square wave signal output of 0~20KHz realize output of physical parameter such as setting frequency, output frequency and etc.
	Analog output channel	1 channel of analog signal output, AO channel can be 4~20mA or 0~10V, through them the inverter can realize output of physical parameter such as setting frequency, output frequency and etc.
Keypad	LED display	Can display setting frequency, output frequency, output voltage, output current etc. in total 14 kinds of parameter
	Button lock	Lock all or part of the buttons(analog potentiometer can't be locked)
Protection function	Over current protection, over voltage protection, lack voltage protection, over heat protection, over load protection etc.	
Optional parts	Brake subassembly, remote control keypad, connecting cable for remote-control keypad etc.	
Ambient	Use ambient	Indoor, not bare to sunlight, no dust, no corrosive gas, no flammable gas, no oil fog, no vapor, no water drop or salt etc.
	Altitude	Lower than 1000m
	Ambient temperature	-10°C~+40°C(If ambient temperature 40°C~50°C, please derate or strengthen heat sink
	Ambient humidity	Smaller than 95%RH, no condensation water
	Vibration	Smaller than 5.9m/s ² (0.6g)
	Storage temperature	-40°C~+70°C
Structure	Defending grade	IP20
Installation mode		Wall hanging and cabinet installation

(Actual specification shall be a bit different from above depending on different types, please refer to user's manual or consult with us when you choose our products)