# Частотные преобразователи VFD EV200
# Технические характеристики


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# EV200 Economical type VFD 3 Phase 380V Variable Frequency Inverter Drive

Product Description


L3 L2 L1
F/R
HZ
V
A
PRG ESC
DATA
RUN
STOP RST
TA TC S1 S2 S3 S4 485+ 485- AI1 +10V GND V
U V W


L3 L2 L1
F/R
HZ
V
A
PRG ESC
DATA
RUN
STOP RST
TA TC S1 S2 S3 S4 485+ 485- AI1 +10V GND V
U V W


L3 L2 L1
4001S


L3 L2 L1
F/R
HZ
PRG ESC


L3 L2 L1
F/R
HZ
V
A
PRG ESC
DATA
RUN
STOP RST
U V W


L3 L2 L1
F/R
HZ
V
A
PRG ESC
DATA
RUN
STOP RST

**Ausenist** EV200 series high-performance small inverters are the company's new generation of high-quality, high-reliability small inverters. Based on the market demand of low power, small size and simple speed regulation, single-phase 220VAC and three-phase 380VAC small inverters have been launched. It can be widely used in small automated machinery represented by wood carving, glass edging, food filling, medical centrifuges,automated production lines, electronic equipment, logistics equipment, textiles, etc.

## Product features:

1.New narrow body design, compact structure layout, smart design, relative to the old product, the installation size is reduced by 30%, and the volume is reduced by 45%, which is more conducive to saving installation space and reducing power distribution costs;

2. Independent air ducts, straight up and down, efficient heat dissipation; can be installed side by side, reasonable use of installation space, greatly reducing the cost of power distribution cabinets;

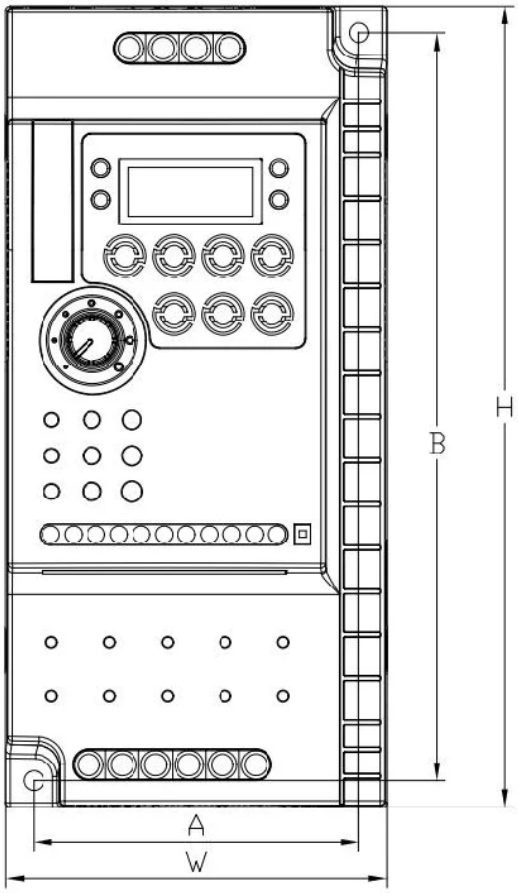
3. 0.5Hz starting torque can reach 150%;

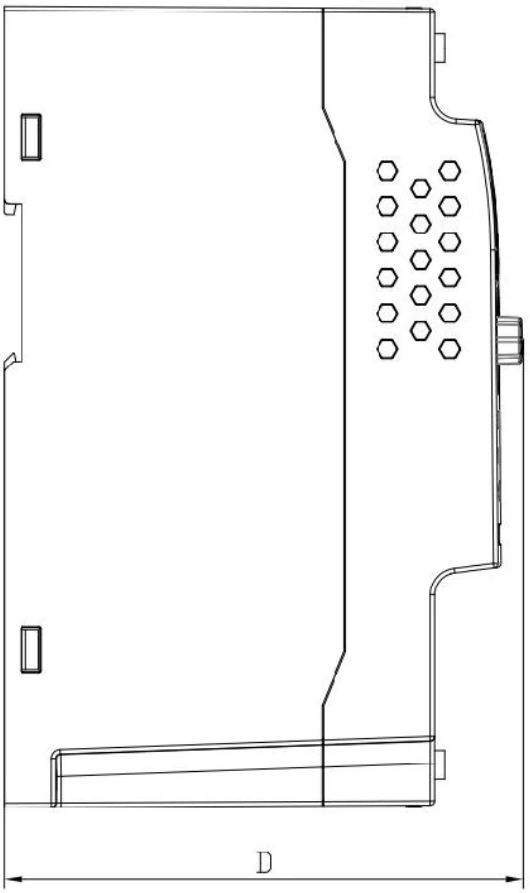
4.0.75-2.2kW without built-in braking unit, above 3.7kW with braking unit;

5. 4 digital input terminals, 1 analog input, 1 relay output;

6. The keyboard can be imported, compatible with the company's 510A, 510Hinverter keyboard interface.

## Detailed Photos




## Product Parameters

| Model type | Power KVA | Input current A | Output current A | Matched motor kW |
|---|---|---|---|---|
| EV200-0004G-S2 | 1 | 5.4 | 2.3 | 0.4 |
| EV200-0007G-S2 | 1.5 | 8.2 | 4 | 0.75 |
| EV200-0015G-S2 | 3 | 14 | 7 | 1.5 |
| EV200-0022G-S2 | 4 | 23 | 9.6 | 2.2 |

| | | | | |
|---|---|---|---|---|
| EV200-0007G-T4 | 1.5 | 3.4 | 2.1 | 0.75 |
| EV200-0015G-T4 | 3 | 5 | 3.8 | 1.5 |
| EV200-0022G-T4 | 4 | 5.8 | 5.1 | 2.2 |
| EV200-0037G-T4 | 5.9 | 10.5 | 9 | 3.7 |
| EV200-0055G-T4 | 8.9 | 14.6 | 13 | 5.5 |

| Item | | Specification | |
|---|---|---|---|
| Basic function | Highest frequency | Vector control: 0~500Hz;<br>V/F control: 0~500Hz | |
| | Carrier frequency | 0.8kHz ~ 12kHz Carrier frequency can be adjusted automatically according to temperature characteristics | |
| | Input frequency resolution | Digital setting: 0.01Hz Analog setting: maximum frequency × 0.025% | |
| | control mode | without PG Vector(SVC),Feedback vector(FVC) and V/F control | |
| | Start torque | G type: 0.5Hz/150%(SVC) ; 0Hz/180%(FVC)<br>P type: 0.5Hz/100% | |
| | Speed range | 1: 100<br>(SVC) | 1: 1000 (FVC) |
| | Speed control accuracy | ±0.5%<br>(SVC) | ±0.02%(FVC) |
| | Torque control accuracy | ±5%(FVC) | |
| | Overload capacity | G type: 150% rated current 60sec; 180% rated current 3sec<br>P type: 120% rated current 60sec; 150% rated current 3sec | |
| | Toruqe boost | Auto-torque boost;manual torque boost 0.1%~30.0% | |
| | V/F curve | Three types:linear type; multi-point type; the N-th power of V/F curve | |
| | V/F Seperation | Two types:full seperation, half seperation | |
| | ACC/DEC curve | Linear or S curve of ACC/DEC ways.Four types of ACC/DEC Time, ACC/DEC time range is 0.0~6500.0s | |
| | DC brake | DC brake frequency: 0.00Hz~ max frequency,brake time:0.0s~36.0s,brake action current: 0.0%~100.0% | |
| | JOG Control | JOG frequency range: 0.00Hz~50.00Hz.JOG speed up/down time: 0.0s~6500.0. | |

| | | |
|---|---|---|
| | Simple PLC,multi-stage speed running | Via built-in PLC or control terminal can realize max 16 stage speed running |
| | Built-in PID | Can realize process control close-loop system conveniently |
| | Auto-adjust voltage(AVR) | When grid voltage changes,can keep output voltage steadily automatically |
| | Over current and over voltage speed control | During running,limit current and voltage automatically,protect from tripping off frequently for over voltage and over current. |
| | Quick current-limit function | Reduce over current error on max extent,protect inverter normal running |
| | Torque limitation and control | "digger"feature, inverter could limit torque automatically,prevent over current tripping off;close loop vector can realize torque control. |
| | Outstanding perform | Using high-perform current vector control |
| | Instantaneous stop not stop | during instant power-off, by motor feedback energy,inverter compensates voltage-drop to keep running for short time. |
| | Quick current-limit function | Reduce overcurrent error on max extent |
| | Timing control | timing control function: setting time range:0.0min~6500.0min |
| | Multi-motor switch | 2sets of motor parameter, can realize 2motors switching control |
| | Multi threading bus support Multi threading bus support | Support multiple fieldbus: Modbus, RS85, CANopen,CANlink |
| | Multi-encoder support | Support differential, open collector, rotary transformer |
| | Command source | control panel, control terminal, communication; can be switched by several modes |
| | Frequency source | 10 types of frequency sources: digital setting, analog voltage setting, analog current setting, pulse setting,communication setting, can be switched by several methods |
| | Auxiliary frequency sources | 10 types of auxiliary frequency source, can realize auxiliary frequency trimming, frequency combining flexiably |
| Running display and keypad | Input terminal | Standard:<br>7 digital input terminal, one of them support max 100KHz HS pulse input;<br>2 analog input terminal, one of them support 2 support 0~10V voltage input,one support 0~10V voltage or 0~20mA current input. |

| | | |
|---|---|---|
| | Output terminal | Standard:<br>1 high-speed pulse output terminal(optional open collector),support 0~100kHzpulse 1 digit output terminals;<br>2 relay output terminal 2 analog output terminals,one of them support 0~20mA current output; |
| | LED display | Can display parameter |
| | Press-key locking and function selection | Realize press-key partial or full locking, define partal press-key function range, to avoid wrong operation |
| | Protection function | Power-on motor short circuit test,output phase-loss protection, over-current protection, over-voltage protection,under-voltage protection, overheat protection, overload protection etc. |
| | Optional parts | Differential PG card, open collector PG card,rotary transformer PG card |
| Environment | Application site | Indoor, without direct sunlight, no powder, corrosive gas, combustion air, oil dust, water steam, water drop or salt etc. |
| | Altitude level | Less than 1000m |
| | Environment temperature | -10ºC~+40ºC(During 40ºC~50ºC, please reduce capacity t ouse) |
| | Humidity | <95%RH, no water drop condensed |
| Opitional | Two Panel LED display | LED display;using RJ45 port to connect |

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