Formerly

YANTAI HUIFENG ELECTRONICS CO., LTD

AC DRIVES

EURA™ DRIVES

E1000/E2000 series

V/F Control / Sensorless Vector Control

0.2 ~ 15KW

EURA DRIVES ELECTRIC CO., LTD

■ Printing ■ Plastic ■ Pharmacy ■ Textile ■ Dyeing ■ Foodstuff ■ Water supply ■ Lathe

EURA DRIVES

BRIEF INTRODUCTION

Professionalism Drives Excellence

17 years' elaborate work

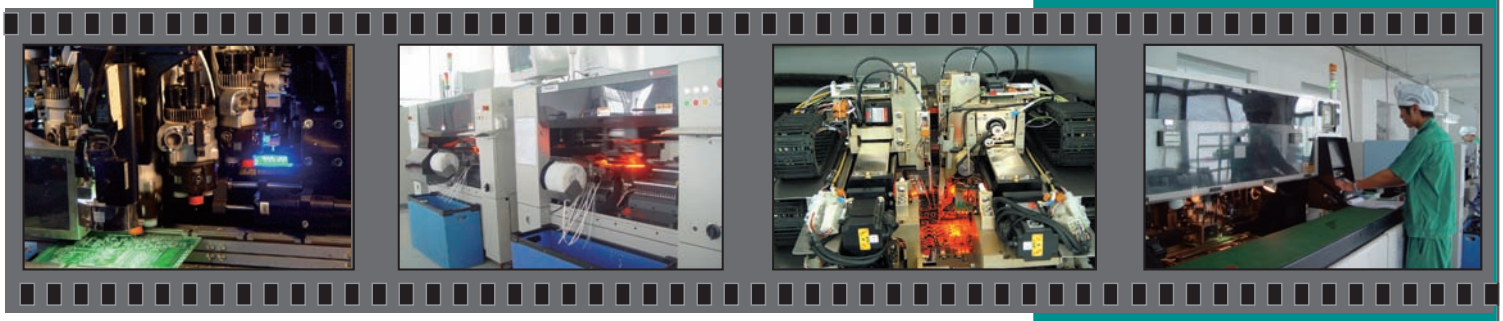
EURA DRIVES ELECTRIC CO., LTD locates in Yantai, a beautiful seaside city in Shandong Province of China. The former YANTAI HUIFENG ELECTRONICS CO., LTD, established in 1992, is the first high-tech enterprises who dedicated to researching and developing AC drives in China.

At the beginning of 2007, we formally changed our company's name from YANTAI HUIFENG ELECTRONICS CO., LTD into EURA DRIVES ELECTRIC CO., LTD. The new company introduced advanced technology and production management idea, by which the capacity of R&D and production was improved to a new and higher level. Therefore, the product's performance and technology was improved, the field of application was broadened, and our customers were supplied with better service as well.

At present, EURA DRIVES ELECTRIC CO., LTD has become the top professional manufacturer that devotes to researching, developing, producing and marketing AC drives and softstarters in China. Thanks to the good quality, we respectively obtained ISO9001 certificate, CE certificate and CCC certificate.

Our main products are general-type drives of E1000, E2000, F1000-G, F2000-G and F3000 series, special-type drives of F2000-P, F2000-M, EPS1000, K2000, ZS2000, LT3300, F1000/T2 series, softstarter of HFR series, HMI and PLC, all of which were widely used in the industries of printing, lathe, plastic, pharmacy, paper making, textile, dyeing, foodstuff, rubber, oil field, mine, fan, pump, and so on. Thanks to our 17 years' experience in the field of production and industrial application, we supplied our customers with various automatic application cases in many industrial fields, by which we earned high reputation in domestic automation industries.

"To Create Value For Customers" is our management idea. In order to realize



"Zero-distance Service", we established branch offices in more than 26 cities and service centers in more than 100 cities in China, by which established a perfect, professional and efficient sale-and-service system. At the same time of developing domestic market, EURA DRIVES is also working up international sales net. Our products have been exported in large quantity to Europe, South America, Southeast Asia, Middle East, Africa and so on.

"Establish An Outstanding Enterprise, Develop A Centenary Brand". EURA DRIVES hopes to accompany with all of our strategic partners from professionalism to excellence, and from excellence to superexcellence.

EURA DRIVES

E -- Effort
U -- United
R -- Responsibility
A -- Attitude

CE ISO9001

EURA DRIVES

CHARACTERISTIC

E1000 series of AC drives is our newest product of V/F control type. By blocking design, the system function is enriched and built-in EMI filter is optional, advanced EMC design is adopted. The product has the feature of compact in frame, new in shape. E1000 series is a kind of high-quality and multifunction drives that can meet wide-ranging application.

E2000 series of AC drives is our newest product of sensorless vector control type. The system function is enriched and advanced vector control core is adopted. With the high utilization rate of voltage, the high power factor, the fast dynamic response, high precision, and low noise. E2000 series can meet higher-level application.

Characteristic:

- Optimizing space voltage vector control enables precise control.
- Optimizing magnetic control realizes larger output torque at low frequency.
- Output frequency is 0.50~650.0Hz (V/F, E1000), 0.50~200.0Hz (SVC, E2000). The highest resolution is 0.01Hz.
- User-defined curve, V/F curve can be adjusted.
- Lower-noise, carrier-wave frequency can be adjusted from 3KHz to 12KHz.
- Real-time current and voltage testing system promotes immediacy and reliability of control protection, which improves system stability.
- Built-in filter is optional.
- Compatible with European power level interface.
- Advanced vector control technology realizes more precise control and more excellent performance. (This characteristic is only for E2000 series.)
- Torque is elevated automatically, starting torque reaches 150% at 0.5Hz, and torque control precision reaches ±0.5%. (This characteristic is only for E2000 series.)

E1000/E2000 Types of Product Structure

Structure Code	Mounting Bolt	External Dimension (A×B×H)	Mounting Size(W×L)mm	Remarks
E1	M4	80x135x138	70x128	
E2	M4	106x150x180	94x170	
E3	M4	106x170x180	94x170	
E4	M5	138x152x235	126x225	
E5	M5	156x170x265	146x255	
E6	M5	205x196x340	194x330	

Model illustration

E1000 0007 S2 F1 K B P R

Mark	Built-in EMI filter
None	None
R	Including built-in EMI filter

Mark	Input signal type of digital control terminals
None	Only for NPN signal
P	Users choose NPN or PNP signals.

Mark	Built-in braking unit
None	None
B	Including built-in braking unit

Mark	Operation panel type
None	Local operation panel without potentiometer
K	Local operation panel with potentiometer

Mark	Scene bus type
None	No communication function
F1	With Modbus communication function

Mark	Input voltage rank
S2	Single-phase 230V
T3	Three-phase 400V

Mark	0007
Motor power(kw)	0. 75KW

Product series

Main function

- Reliable application on various industrial control application.
- Built-in braking unit.
- Built-in EMI filter.
- Line type, square curve type and user-defined type of torque-compensation available, adapted to many kinds of loading mode
- Jogging speed control, multistage speed control, analog signal speed control and PC/PLC speed control.
- Standard RS485 communication interface, PC/PLC control by MODBUS communication and 125 pieces of AC drives can be operated at the same time.
- Main frequency source includes given digit, given analog voltage and given MODBUS, etc.
- With both input types of NPN type and double-polarity NPN and PNP type.
- 6 digital input terminal, each of which can be defined the according function by users. 2 analog input terminals, one of which can be used to select voltage signal (0~5v, 0~10v) or current signal (0~20 mA, 4~20 mA) by coding switch. And the other can be used to input voltage signal (0~10V).
- 1 digital output terminal, 1 multifunction relay output terminal and 2 analog output terminals.
- With the twinkling display of preset frequency, running frequency can be easily set before running, especially on the stage of analog speed control.
- Current stalling adjusting.
- DC braking in static and stop states.
- Real-time current, voltage monitoring system enables to keep constant output voltage automatically in the case of fluctuation of grid voltage.
- User-defined corresponding voltage of output frequency.
- AC drive overload and motor overload protection.

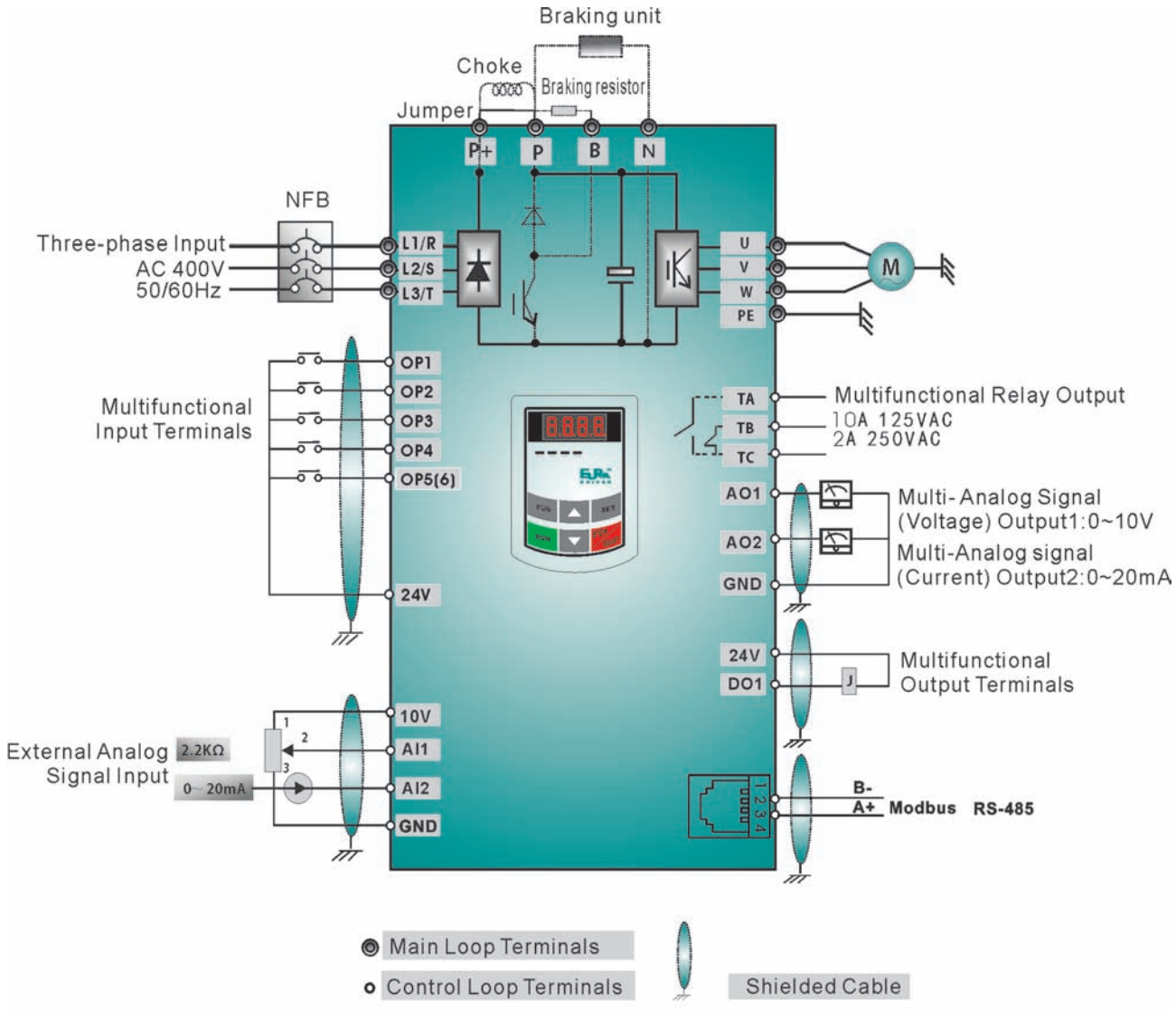
E1000/E2000 Product Summary

Model	Applicable Motor (kw)	Rated Current Output (A)	Lead Section Area (mm2)	Structure Code	Cooling Mode	Remarks
E1000/E2000-0002S2	0.2	1.5	1. 0	E1	Self-cooling	Single-Phase
E1000/E2000-0004S2	0.4	2.5	1. 5	E1	Air-cooling	
E1000/E2000-0007S2	0.75	4.5	2. 5	E1	Air Cooling	
E1000/E2000-0015S2	1.5	7.0	2. 5	E2	Air Cooling	
E1000/E2000-0022S2	2.2	10	4. 0	E3	Air Cooling	
E1000/E2000-0007T3	0.75	2.0	1. 5	E2	Air Cooling	Three-Phase
E1000/E2000-0015T3	1.5	4.0	2. 5	E2	Air Cooling	
E1000/E2000-0022T3	2.2	6.5	2. 5	E2	Air Cooling	
E1000/E2000-0037T3	3.7	8.0	2. 5	E4	Air Cooling	
E1000/E2000-0040T3	4.0	9.0	2. 5	E4	Air Cooling	
E1000/E2000-0055T3	5.5	12	4. 0	E5	Air Cooling	
E1000/E2000-0075T3	7.5	17	4. 0	E5	Air Cooling	
E1000/E2000-0110T3	11	23	6. 0	E6	Air Cooling	
E1000/E2000-0150T3	15	32	10	E6	Air Cooling	

E1000/E2000 Technical specification

Items		Contents
Input	Rated Voltage Range	3-phase 400V±15%; single-phase 230V±15%
	Rated Frequency	50/60Hz
Output	Rated Voltage Range	3-phase 0~400V;3-phase 0~230V
	Frequency Range	0.00~650.0Hz
Control characteristic	Carrier Frequency	3000~12000Hz; random carrier
	Input Frequency Resolution	Digital setting: 0.01Hz, analog setting: max frequency X 0.1%
	Control Mode	E1000: VVVF control E2000: VVVF control/sensorless vector control
	Overload Capacity	150% rated current, 60 seconds.
	Torque Elevating	Manual Torque Promotion 0.1%~30.0% (VVVF), 150% at 0.5Hz (SVC).
	V/F Curve	3 kinds of modes: beeline type, square type and under-defined V/F curve.
	DC Braking	DC braking frequency: 1.0~5.0 Hz, braking time: 0.0~10.0s
	Jogging Control	Jogging frequency range: min frequency~ max frequency, jogging acceleration/deceleration time: 0.1~3000.0s
	Auto Circulating Running and multi-stage speed running	Auto circulating running or terminals control can realize 15-stage speed running.
	Built-in PI adjusting	Easy to realize a system for process closed-loop control
Operation Function	Frequency Setting	Potentiometer or external analog signal; keypad (terminal)▲/▼ keys, external control logic and automatic circulation setting, PC/PLC setting by Modbus.
	Start/Stop Control	Terminal control, keypad control or PC/PLC control by Modbus.
	Running Command Channels	3 kinds of channels from keypad panel, control terminals and PC/PLC given by Modbus.
	Frequency Source	Given digit, given analog voltage, given analog current, PC/PLC given by Modbus, PI control and stage-speed control.
	Accessorial frequency Source	Given digit, given analog voltage, given analog current, PI control and stage-speed control.
Optional	Built-in EMI filter, built-in braking unit, Modbus communication, local operation panel with potentiometer, tele-control panel	
Protection Function	Input out-phase, input under-voltage, DC over-voltage, over-current, over-load, current stall, over-heat, external disturbance	
Display	LED nixie tube showing present output frequency, present rotate-speed (rpm), present output current, present output voltage, present linear-velocity, types of faults, and parameters for the system and operation; LED indicators showing the current working status of AC drive.	
Environment Conditions	Equipment Location	indoor location, Prevent exposure from direct sunlight, Free from dust, tangy caustic gases, flammable gases, steam or the salt-contented, etc.
	Environment Temperature	-10℃～+50℃
	Environment Humidity	Below 90% (no water-bead coagulation)
	Vibration Strength	Below 0.5g (acceleration)
	Height above sea level	1000m or below
Applicable Motor	0.2~15 KW	

E1000/E2000 Basic Wiring Diagram



Basic Wiring Diagram for Three-phase AC drives (PNP type)

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