



ENGLISH

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E600 FREQUENCY INVERTER

0.2kW - 5.5kW / 0.3HP- 7.5HP



E600

0.2 kW - 5.5 kW / 0.3HP - 7.5HP
FREQUENCY INVERTER

HIGHLIGHTS

Best performance/cost ratio, without compromise in reliability and quality

Compact design, easy to integrate in multiple environments: DIN rail mounting, contactor-style I/O

Easy to setup: Simple set of optimized parameters for all basic functions and applications

PID and HVAC functions - safety integrated - MODBUS - open for networking

Internal EMC filter as standard: Ready for CE market

Economical mass production on highly automated and dedicated SMT lines

General purpose drive - made for the worldwide market (CE/UL)

Approved and certified by American independent bodies



Naming rule

Model naming rule

E600 – 0007 S2

Input power type: S2:1-phase 220~240V T3:3-phase 380~480V
Motor power
Mark
Motor power (kW)
Product series

Function naming rule

Q2 U5 F2 AG01 B1 R3

Filter	R3	EMC C3 level filter
Braking type	B1	Dynamic braking
Keypad panel	AG03	AG LED keypad in English
Communication	F2	Terminal interface is adopted for Modbus
Certificate	U5	UL+CE
Structure code	Q2	Q2 structure

Remote keypad

Keypad code	Contents
A623	A6 English LED without potentiometer
A624	A6 English LED without potentiometer
AA23	AA English LED without potentiometer
AD21	AD English LCD1 without potentiometer

Certificate

Certificate code	Contents
U1	CE
U5	UL+CE
U8	CE+STO
U9	CE+UL+STO

Communication

Communication code	Contents
F2	Modbus

TECHNICAL DATA

Power supply		3-phase 380...460V +/- 15% - 1-phase 200...240V +/- 15%
	Input frequency	44....67 Hz
	EMC filter	C3 level
Output		
	Output voltage	0.....V-input
	Output frequency	0.5.....590Hz
	Resolution of output frequency	0,01 Hz
	Overload capability	150% - 60 sec. / 10 Min
Control-Mode		
	PWM control-modes	V/Hz - Mode
	PWM frequency	0,8....6 kHz
	V/Hz characteristic	Linear, quadratic, and user-programmable curve
	Starting torque	100% rated torque at 1 Hz
	DC-Brake	Freq. threshold, duration and intensity programmable – DC injection
	Brake chopper	Integrated chopper transistor
Display	7 Segment LED display -4- digit	For programming and visualization of different operating parameters V/Hz - Mode
I/O Channels, control functions	Inverter control - Start/Stop	To configure: terminals / operation panel / serial link
	Digital control inputs	4 digital inputs (HIGH/LOW configurable)
	Speed reference signal	Potentiometer, analogue input (terminals 0...10V, (0)4...20 mA), Operating panel keys ,serial link
	Reference analogue channels	1 Analogue channels 0...10V, (0)4...20 mA
	Analogue outputs	1 analogue output channel programmable in gain, different functions to assign (0...10V)
	Digital outputs	1 digital output (OC, different functions to assign)
	Relays output	1 switchover contact 3 A 230 V (programmable for different functions)
	Interface	Serial link (MODBUS – ASCII/RTU) Jog mode, 12V / 50 mA auxiliary power supply on terminals
	Special function - control options	PI-control Fixed frequency control, programmable cycling frequency sequence AUTORESET/RESTART function
Protection functions, incl. fault memory	Electrical protection functions	Overvoltage, Undervoltage Overcurrent, Overload, Motor-Overload, Output-short Analogue reference interruption
	Thermal protection functions	Heatsink overtemperature
Options	Operating panel	Remote keypad
	Brake resistors	Braking resistors for heavy duty operation
	Parameter copy stick	USB Stick with parameter duplication function
	PC-Link Software (via MODBUS)	Special tool for programming, control and diagnostic (parameter set memory)
	Safety	STO (Q2 only)
Environmental conditions	Protection	IP20/NEMA 1
	Operating temperature	-10.....+40 °C
	Humidity	Max. 90 % not condensing, no corrosion
	Elevation	1000 m - 1% derating / 100m above
	Vibration	Max. 0,5 g
Power range	V/Hz	230V: 0,2...2,2 kW 400V: 0,2...5,5 kW

Functions of Control Terminals

Termin	Type	Description	Function											
DO1	Output signal	Multifunctional output terminal 1	When the token function is valid, the value between this terminal and CM is 0V; when the inverter is stopped, the value is 24V.											
TA TB TC		Relay contact												
10V	Analog power supply	Self contained power supply	Internal 10V self-contained power supply. When used externally, it can only be used as the power supply for voltage control signals with restricted current below 20mA.											
AI1	Input Signal	Voltage /current analog input port	When analog speed control is adopted, the voltage or current signal is input through this terminal. The range of voltage input is 0~5V or 0~10V ,and the current input is 0 ~20mA, the input resistor is 50Ω, and grounding: GND. If the input is 4~20mA, it can be realized by setting F400=2. The voltage or current signal can be chosen by coding switch. The default setting of AI1 is 0~10V.											
GND		Self-contained Power supply Ground	Ground terminal of external control signal (voltage control signal or current source control signal) is also the ground of 10V power supply of this inverter.											
24V	Power supply	Control power supply	Power: 24±1.5V, grounding is CM; current is restricted below 200mA for external use.											
DI1	Digital input control termina	Jogging terminal	When this terminal is valid, the inverter will have jogging running. The jogging function of this terminal is valid under both at stopped and running status. When this terminal is valid, “ESP” malfunction signal will be displayed. When this terminal is valid, inverter will run forward. When this terminal is valid, inverter will run reversely.											
DI2		External Emergency Stop												
DI3		“FWD” Terminal												
DI4		“REV” Terminal												
GND	485 communication terminals	Grounding of differential signal	Grounding of differential signal											
5V		Power of differential signal	Power of differential signal											
A+		Positive polarity of differential signal	Standard: TIA/EIA-485(RS-485) Communication protocol: Modbus Communication rate: 1200/2400/4800/9600/19200/38400/57600bps											
B-		Negative polarity of Differential signal												
TA	TB	TC	DO1	24V	CM	DI1	DI2	DI3	DI4	10V	AI1	GND	AO1	
GND	+5V	A+	B1											
SR1	SR2	24V	FB		CM									

SR1, SR2, 24V, FB, CM is optional for Q2 structure for STO function.

FRAMESIZE



Q1

Q2

Model	Motor Power (kW/HP)	Rated Current Output (A)	Structure Code	Weight (kg)	Cooling Mode
E600-0002S2Q1U5F2AG03B1R3	0.2/0.3	1.5	Q1	0.45	Self-cooling
E600-0004S2Q1U5F2AG03B1R3	0.4/0.5	2.5	Q1	0.45	Self-cooling
E600-0007S2Q1U5F2AG03B1R3	0.75/1.0	4.5	Q1	0.48	Air-Cooling
E600-0015S2Q1U5F2AG03B1R3	1.5/2.0	7.0	Q1	0.49	Air-Cooling
E600-0002S2Q2U5F2AG03B1R3	0.2/0.3	1.5	Q2	0.45	Self-cooling
E600-0004S2Q2U5F2AG03B1R3	0.4/0.5	2.5	Q2	0.45	Self-cooling
E600-0007S2Q2U5F2AG03B1R3	0.75/1.0	4.5	Q2	0.48	Air-Cooling
E600-0015S2Q2U5F2AG03B1R3	1.5/2.0	7.0	Q2	0.49	Air-Cooling
E600-0022S2Q2U5F2AG03B1R3	2.2/3.0	10	Q2	0.75	Air-Cooling
E600-0002T3Q1U5F2AG03B1R5	0.2/0.3	0.6	Q1	0.45	Self-cooling
E600-0004T3Q1U5F2AG03B1R5	0.4/0.5	12	Q1	0.8	Self-cooling
E600-0007T3Q1U5F2AG03B1R5	0.75/1.0	2.0	Q1	0.82	Air-Cooling
E600-0015T3Q1U5F2AG03B1R5	1.5/2.0	4.0	Q1	0.85	Air-Cooling
E600-0002T3Q2U5F2AG03B1R3	0.2/0.3	0.6	Q2	0.8	Self-cooling
E600-0004T3Q2U5F2AG03B1R3	0.4/0.5	1.2	Q2	0.8	Self-cooling
E600-0007T3Q2U5F2AG03B1R3	0.75/1.0	2.0	Q2	0.82	Air-Cooling
E600-0015T3Q2U5F2AG03B1R3	1.5/2.0	4.0	Q2	0.85	Air-Cooling
E600-0022T3Q2U5F2AG03B1R3	2.2/3.0	6.5	Q2	1.3	Air-Cooling
E600-0030T3Q2U5F2AG03B1R3	3.0/4.0	7.6	Q2	1.3	Air-Cooling
E600-0040T3Q2U5F2AG03B1R3	4.0/5.5	9.0	Q2	1.45	Air-Cooling
E600-0055T3Q2U5F2AG03B1R3	5.5/7.5	12	Q2	1.45	Air-Cooling



LCD REMOTE
KEYPAD IP66

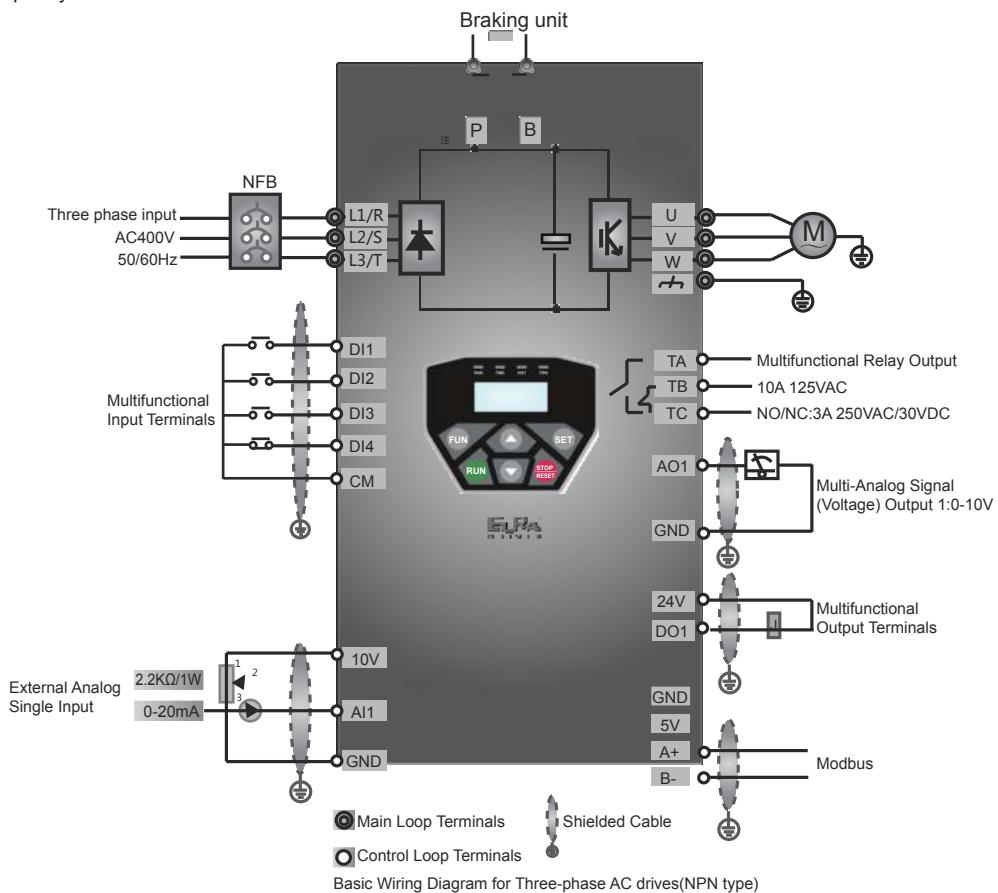


PARAMETER
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Wiring diagram

Note:

1. Connect power terminals L1/R and L2/S with power grid for single-phase inverters.
2. 485 communication port has built-in standard MODBUS communication protocol. Communication port is on the right side of inverter.
3. The contact capacity is 10A/125VAC. NO/NC: 3A 250VAC/30VDC.





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