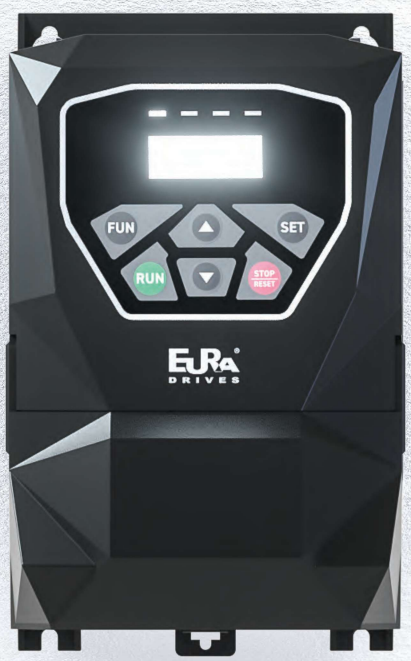

E600 0.2 kW - 5.5 kW / 0.3HP - 7.5HP
FREQUENCY INVERTER

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 (UL+cUL+CE)
- Approved and certified by American independent body

Naming Rule

Model naming rule

E600 – 0007 S2

- **S2** — Input power type: S2:1-phase 220~240V; T3:3-phase 380~480V
- **0007** — Motor power

Mark	0007	0015	·····
Motor power (kW)	0.75	1.5	·····

- **E600** — 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+cUL+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+cUL+CE
U8	CE+STO
U9	UL+cUL+CE+STO

Communication

Communication code	Contents
F2	Modbus

Technical Data

Power Supply	Rated Voltage Range	3-phase 380 - 480V +10% / -15% / 1-phase 220…240V +/-15%
	Input Frequency	50/60Hz +/-5%
	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 Adjustable
Control Mode	PWM Control-Modes	V/Hz - Mode
	PWM Frequency	0,8 - 6 kHz; Mfr's value: 3K
	V/Hz Characteristic	Linear, quadratic, and user-programmable curve
	Starting Torque	100% rated torque at 1 Hz
	DC-Brake	Frequency 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
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, analog input (terminals 0 ... 10V, (0) 4 ... 20mA), Operating panel keys, serial link
	Reference Analog Channels	1 analog channels 0…10V, (0) 4 .... 20mA
	Analog Outputs	1 analog 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 – ASCI/RTU)
	Special Function-Control Options	Jog mode, 12V / 50mA auxiliary power supply on terminals PID - 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 Analog 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) – memory stick used as USB to Modbus converter
	Safety	STO (Q2 only)
Environmental Conditions	Protection	IP20/NEMA 1
	Operating Temperature	-10 - 40 °C
	Humidity	Max . 90 % not condensing, no corrosion
	Elevation	1000m - 1% derating/100m above
	Vibration	Max . 0,5 g
Power Range	V/Hz	230V: 0,2…2,2 kW 460V: 0,2…5,5 kW