

# EL<sup>®</sup>MARK

The Brand of Electricity

## FREQUENCY INVERTERS ELM 600, SERIES



### FEATURES»

- Best performance/cost ratio, without compromise in reliability and quality.
- Compact design, easy to integrate in your environment: 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.
- Economical mass production on high automated and dedicated SMT lines.
- General purpose drive - made for the worldwide market.

## TECHNICAL DETAILS»

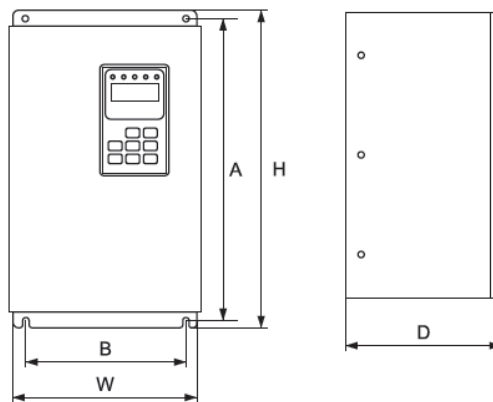
- Power range:  $\frac{3}{4}$  Single phase: from 0.75 to 2.2Kw  $\frac{3}{4}$  Three phase: from 1.5 to 5.5kW
- Rated voltage:  $\frac{3}{4}$  Single phase: 200...240V +/- 15%  $\frac{3}{4}$  Three phase: 3-phase 380...460V +/- 15%
- Input frequency: 47 - 57Hz
- EMC filter: Integrated (for 2. environment)
- Output voltage: 0 - V input
- Output frequency: 0.5 - 650Hz
- Resolution of output frequency: 0.01 Hz
- Overload capability: 150% - 60 sec. / 10 Min
- PWM control-modes: V/Hz - Mode
- PWM frequency: 0.8 - 6kHz
- 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
- LED display: 7 Segment, 4- digit for programming and visualization of different operating parameters
- 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)
- Special function - control options: Jog mode, 12V / 50 mA auxiliary power supply on terminals PI-control Fixed frequency control, programmable cycling frequency sequence AUTORESET/RESTART function

# TECHNICAL SPECIFICATION SHEET

- Electrical protection functions: Overvoltage, Undervoltage Overcurrent, Overload, Motor-Overload, Output-short Analogue reference interruption
- Thermal protection functions: Heatsink overtemperature
- IP code: IP21
- Operating temperature: from -10 to +40°C
- Humidity: Max. 90 % not condensing, no corrosion
- Elevation: 1000 m - 1% derating / 100m above

## DIMENSIONS»

Dimensions WxDxH (mm)	Weights (kg)
88x140.5x149	0.48
88x140.5x149	0.49
106x161x170	0.75
106x161x170	1.2
106x161x170	1.3
106x161x170	1.3
106x161x170	1.45
106x161x170	1.45



## PRODUCT DETAIL

Catalogue number	Type	Input voltage (V)	Maximum output power (kW)	Maximum current output (A)
423440	ELM600- 0.75kW 1P/230V	230	0.75	4.5
423441	ELM600- 1.5kW 1P/230V	230	1.5	7
423442	ELM600- 2.2kW 1P/230V	230	2.2	10
423443	ELM600- 1.5kW 3P/400V	400	1.5	4
423444	ELM600- 2.2kW 3P/400V	400	2.2	6.5
423445	ELM600- 3.0kW 3P/400V	400	3.0	7.6
423446	ELM600- 4.0kW 3P/400V	400	4.0	9
423447	ELM600- 5.5kW 3P/400V	400	5.5	12

**Standards:**  
EN60898-1; EN 60947-2

