

A DRIVES COMPANY

**EURa Drives GmbH**



Mühlenweg 143, 22844 Norderstedt

Telefon: +49 40 589 7950 0

Fax: +49 40 589 7950 29

info@euradrives.eu

**ENGLISH**

[www.euradrives.eu](http://www.euradrives.eu)

**E800**

FREQUENCY INVERTER

0.4 kW - 110 kW





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## FREQUENCY INVERTER

### HIGHLIGHTS

All I/O channels programmable, two 12 Bit analogue inputs, to concatenate each other

Build in PID controller, with specific HVAC functions

MODBUS interface, for inverter control, and for reading and setting of all inverter I/O hardware channels

The inverter I/O hardware can be implemented in subordinated control systems

Control mode: V/Hz control for asynchronous motor; SENSORLESS control for Permanent Magnet Synchronous Motor - PMSM

Intelligent voltage, current and carrier frequency adjustment functions, "catch on the fly" function

PC-Software, for inverter control and programming, diagnosis and troubleshooting

Smart parameter copy tools

EMC filter (C3 class) integrated



### FRAMESIZE

#### Inverter E800 - 1 x 230V / 240V

| Model        | Rated current   | Frame-size | Dimensions (WxHxD-mm) | Brake resistor min.value |
|--------------|-----------------|------------|-----------------------|--------------------------|
| E800-0004 S2 | 0,4 kW - 2.5 A  | E1         | 80x138x135            | 80 Ohm/200W              |
| E800-0007 S2 | 0,75 kW - 4.5 A |            |                       |                          |
| E800-0015 S2 | 1,5 kW – 7A     | E2         | 106x180x150           |                          |
| E800-0022 S2 | 2,2 kW - 10 A   |            |                       |                          |

#### Inverter E800 - 3 x 400V / 460V

| Model        | Related current | Frame-size | Dimensions (WxHxD-mm) | Brake resistor min. value |
|--------------|-----------------|------------|-----------------------|---------------------------|
| E800-0002 T3 | 0,2 kW - 0.6 A  | E1         | 80x138x135            | 150 Ohm/80W               |
| E800-0004 T3 | 0,4 kW - 1.2 A  |            |                       |                           |
| E800-0007-T3 | 0,75 kW - 2 A   |            |                       |                           |
| E800-0015-T3 | 1,5 kW - 4 A    | E2         | 106x180x150           | 150 Ohm/150W              |
| E800-0022-T3 | 2,2 kW - 6.5 A  |            |                       | 150 Ohm/150W              |
| E800-0030-T3 | 3,0 kW - 7 A    | E3         | 106x180x150           | 150 Ohm/300W              |
| E800-0040-T3 | 4,0 kW - 9 A    |            |                       | 150 Ohm/400W              |
| E800-0055-T3 | 5,5 kW - 12 A   | E4         | 138x235x152           | 100 Ohm/550W              |
| E800-0075-T3 | 7,5 kW - 17 A   |            |                       | 100 Ohm/750W              |
| E800-0110-T3 | 11 kW - 23 A    | E5         | 156x265x170           | 100 Ohm/1.1kW             |
| E800-0150-T3 | 15 kW - 32 A    |            |                       | 50 Ohm/1.5kW              |
| E800-0185-T3 | 18,5 kW - 38 A  | E6         | 205x340x196           | 50 Ohm/2.0kW              |
| E800-0220-T3 | 22 kW - 44 A    |            |                       | 50 Ohm/2.2kW              |
| E800-0300-T3 | 30 kW - 60 A    | C3         | 265x435x235           | 25 Ohm/3.0kW              |
| E800-0370-T3 | 37 kW - 75 A    |            |                       | 25 Ohm/3.0kW              |
| E800-0450-T3 | 45 kW - 90 A    | C4         | 315×480×234           | 15 Ohm/4.5kW              |
| E800-0550-T3 | 55 kW - 110 A   |            |                       | 15 Ohm/5.5kW              |
| E800-0750-T3 | 75 kW - 150 A   | C5         | 360x555x265           |                           |
| E800-0900-T3 | 90 kW - 180 A   | C6         | 410x630x300           | 8 Ohm/9.0kW               |
| E800-1100-T3 | 110 kW - 220 A  |            |                       | Optional brake-unit       |

### TECHNICAL DATA

|                                        |                        |                                                                                                       |
|----------------------------------------|------------------------|-------------------------------------------------------------------------------------------------------|
| Power input                            | Supply voltage         | 1-Phase 220V ~ 240V (+/-15%)<br>3-Phase 380V-460 (+/-15%)                                             |
|                                        | Input frequency        | 44.....67 Hz                                                                                          |
|                                        | EMC filter             | Integrated for second environment (industrial area) - option for first environment (residential area) |
| Motor output                           | Output voltage         | 0.....V-input                                                                                         |
|                                        | Output frequency       | 0.5.....650 Hz                                                                                        |
|                                        | Overload capability    | 120% - 60 sec / 15 min                                                                                |
| Control-Mode                           | V/Hz                   | Linear, Variable torque curve, user programmable curve                                                |
|                                        | PWM frequency          | 800...10000Hz (FIXED / RANDOM)                                                                        |
| Display                                | LED 7-segment display  | Programmable, to display various inverter and working parameters                                      |
| Control hardware (I/O)                 | Digital inputs         | 6 ( 8 ) dig. inputs (PNP/NPN)                                                                         |
|                                        | Analogue inputs        | 2 x 12 BIT analogue inputs 0...10V, 0(4).....20 mA)                                                   |
|                                        | Analogue outputs       | 2 analogue output, to assign to various functions (0...10V, 0..20 mA)                                 |
|                                        | Digital outputs        | 2 digital outputs (free assignement to different functions)                                           |
|                                        | Relais                 | 1 switchover contact 5 A 230 V (programmable function)                                                |
|                                        | MODBUS                 | Inverter control, reading and setting of all inverter I/O channels                                    |
| Specials                               | Aux. power supply      | Auxiliary power supply: 24V / 50 mA – on terminals<br>10V potentiometer power supply                  |
| Protection functions with Fault memory | Electrical protections | Overvoltage, undervoltage<br>Overcurrent, overload, motor overload, short circuit                     |
|                                        | Thermal protections    | Inverter overtemperature, motor-overload I <sup>2</sup> xt                                            |
| Optionals and accessories              | Display / keypad       | Remote display / keypad unit                                                                          |
|                                        | Brake                  | Brake resistors for all kind of applications                                                          |
|                                        | PC-Link Software       | Smart tool for parameter setting, control an diagnosis                                                |
|                                        | Fieldbus               | Gateway modules for all commonly used bus technologies                                                |
|                                        | Parameter copy stick   | Smart tool for parameter storage and duplication                                                      |
| Environmental and operating conditions | Protection degree      | IP20 / IP21 (option)                                                                                  |
|                                        | Operating temperature  | -10.....+40 °C                                                                                        |
|                                        | Humidity               | Max. 90 % non condensing, non corrosive                                                               |
|                                        | Altitude               | 1000 m, above derating of 1% / 100m                                                                   |

LCD REMOTE KEYPAD FOR CABINET **IP66**



PARAMETER COPY STICK

