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**E800**

FREQUENCY INVERTER

0.4 kW - 110 kW





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## FREQUENCY INVERTER

### HIGHLIGHTS

The inverter for HVAC applications - compact, low cost and reliable

Build in PID controller, with specific HVAC functions

MODBUS interface for inverter control reading and setting of all I/O hardware channels via MODBUS-implementation in subsystems.

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"

EMC filter (c3 class) integrated C1 footprint filter as option.

### FRAMESIZE

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

Model	Rated current	Framesize	Dimensions (WxHxD-mm)	Brake resistor min. value
E800-0004 S2	0,4 kW - 2.5 A	E1	80x138x135	80 Ohm/100W
E800-0007 S2	0,75 kW - 4.5 A	E1	80x138x135	80 Ohm/100W
E800-0015 S2	1,5 kW - 7A	E2	106x180x150	80 Ohm/100W
E800-0022 S2	2,2 kW - 10 A	E2	106x180x150	80 Ohm/100W

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

Model	Rated current	Framesize	Dimensions (WxHxD-mm)	Brake resistor min. value
E800-0004 T3	0,4 kW - 1.2 A	E1	80x138x135	200 Ohm/100W
E800-0007-T3	0,75 kW - 2 A	E2	106x180x150	150 Ohm/100W
E800-0015-T3	1,5 kW - 4 A	E2	106x180x150	100 Ohm/100W
E800-0022-T3	2,2 kW - 6,5 A	E2	106x180x150	100 Ohm/100W
E800-0030-T3	3,0 kW - 8 A	E2	106x180x150	80 Ohm/300W
E800-0040-T3	4,0 kW - 9 A	E4	138x235x152	80 Ohm/300W
E800-0055-T3	5,5 kW - 12 A	E4	138x235x152	80 Ohm/300W
E800-0075-T3	7,5 kW - 17 A	E5	156x265x170	80 Ohm/600W
E800-0110-T3	11 kW - 23 A	E5	156x265x170	50 Ohm/600W
E800-0150-T3	15 kW - 32 A	E6	205x340x196	30 Ohm/1.0kW
E800-0185-T3	18,5 kW - 38 A	E6	205x340x196	30 Ohm/1.0kW
E800-0220-T3	22 kW - 44 A	E6	205x340x196	20 Ohm/1.5kW
E800-0300-T3	30 kW - 60 A	C3	270x435x235	20 Ohm/1.5kW
E800-0370-T3	37 kW - 75 A	C3	270x435x235	20 Ohm/1.5kW
E800-0450-T3	45 kW - 90 A	C4	315x480x235	15 Ohm/2.0kW
E800-0550-T3	55 kW - 110 A	C5	360x555x265	15 Ohm/2.0kW
E800-0750-T3	75 kW - 150 A	C5	360x555x265	10 Ohm/3.0kW
E800-0900-T3	90 kW - 180 A	C6	410x630x300	8 Ohm/10.0kW
E800-1100-T3	110 kW - 220 A	C6	410x630x300	Optional brake-unit



### TECHNICAL DATA

Power input	Supply voltage	1-Phase 220V ~ 240V (+/-15%) 3-Phase 380V-460V (+/-15%)
	Input frequency	44...67 Hz
	EMC filter	Integrated for second environment (C3 - industrial area) - option for first environment (C1 - 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 PATTERN)
Display	4 digit LED 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	1(2) digital outputs (free assignment to different functions)
	Relays	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 10V potentiometer power supply
Protection functions with Fault memory	Electrical protections	Over-voltage, under-voltage Over-current, overload, short circuit
	Thermal protections	Inverter over temperature, motor-overload I <sup>2</sup> t simple PTC read-in
Optionals and accessories	Display / keypad	Remote display / keypad unit
	Brake	Brake resistors for all kind of applications
	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

REMOTE KEYPAD  
IP20



CABLE FOR  
REMOTE KEYPAD  
IP66

PARAMETER  
COPY STICK

