



FREQUENCY INVERTER E 800

0,2 – 450 kW

- ▶ WATER SUPPLY ▶ WASTEWATER TREATMENT ▶ FAN AND PUMPS ▶ BOOSTER STATIONS HEATING
- ▶ AIR CONDITIONING ▶ BUILDING AUTOMATION ▶ AGRICULTURE ▶ IRRIGATION SYSTEMS
- ▶ MATERIAL HANDLING ▶ CONVEYOR BELTS ▶ SCREW COMPRESSORS ▶ VACUM PUMPS ▶ BLOWER

FREQUENCY INVERTER E 800

The professional inverter for all variable torque, applications.

- ▶ All I/O channels programmable, two 12 Bit analogue inputs, to concatenate each other
- ▶ Build in PID controller, Fire mode, specific HVAC functions
- ▶ MODBUS interface, for inverter control, and for reading and setting of all inverter I/Os
In this way, the inverter hardware can be implemented in subordinated control systems
- ▶ Control mode: VVVF for induction motor
Sensorless vector control for PMSM
- ▶ With auto carrier-frequency adjust, auto voltage adjust, fast current limiting and speed track functions.
- ▶ PC-Software, for diagnosis, control and inverter programming



The best product for applications in:

Water supply, wastewater treatment
fan and pumps, booster stations
heating, air conditioning
building automation

Agriculture, irrigation systems

Material handling, conveyor belts

Screw compressors, vacuum pumps,
blower

HVAC Retrofit / Fire pump / Energy optimizing

E800 – Technical data

Power input	Supply voltage	3-Phase 380 - 460V +/- 15% 3-Phase 230V +/-15% 1-Phase 230V +/-15%
	Input frequency	44....67 Hz
	EMC filter	Integrated for class 2 (industrial) - class 1 optional (residential area)
Motor output	Output voltage	0.....V-input
	Output frequency range	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
Display	LED 7-segment display	Programmable to display various operating parameters
Control hardware (I/O)	Digital Inputs	5 dig. inputs (PNP/NPN)
	Analogue inputs	2 x 12 BIT analogue inputs 0...10V, 0(4).....20 mA)
	Analogue output	1 analogue output, to assign to various functions (0...10V, 0...20 mA)
	Digital output	1 digital output (programmable)
	Relais	1 switch 5 A 230 V (programmable function)
	MODBUS	Inverter control, reading and setting of all inverter I/O channels
Specials	Power supply	Auxiliary power supply: 24V / 50 mA 10V Potentiometer power
Protection functions with error memory	Electrical protections	Overvoltage, undervoltage
		Overcurrent, overload, motor overload, short circuit
		Input phase loss, motor phase loss, all protection OFF in Fire mode
	Thermal protections	Inverter overtemperature, motor-overload I ² xt
Optionals	Display/keypad	Remote display/keypad unit
	Brake	Brake resistors for all different applications
	PC-Link Software	Smart tool for parameter setting, control an diagnosis
	Fieldbus	Gateway modules for all common bus systems
Environment	Protection degree	IP20
	Operating temperature	-10.....+50 °C
	Humidity	Max. 90 % non condensing, non corrosive
	Altitude	1000 m, derating of 1%/100m above
Standards	Electromagnetic compatibility	EN61800-3 / 2004
	Safety	EN61800-5-1 / 2003

E800 – models - **230 V** Inverters

Inverter E800 - 1 x 230V - EMC filter OPTIONAL

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

Inverter E800 - 3x 230V - EMC filter OPTIONAL

Model	Rated current	Frame	Dimensions (WxHxD-mm)	Brake resistor min.value
E800-0004-T2	0,4 kW - 2,5A	E1	80x138x135	80 Ohm/200W
E800-0007-T2	0,75 kW - 4,5A	E1		
E800-0015-T2	1,5 kW - 7 A	E2	106x180x150	
E800-0022-T2	2,2 kW - 10A	E2		

E800 – models - **400 V** Inverters

Inverter E800 - 3x400V - EMC filter OPTIONAL

Model	Rated current	Frame	Dimensions (WxHxD-mm)	Brake resistor min.value
E800-0007-T3	0,75 kW - 2 A	E2	106x180x150	145 Ohm/80W
E800-0015-T3	1,5 kW - 4 A	E2		95 Ohm/150W
E800-0022-T3	2,2 kW - 6,5 A	E2		95 Ohm/250W
E800-0030-T3	3,0 kW - 7 A	E3	106x180x170	95hm/300W
E800-0040-T3	4,0 kW - 9 A	E4	138x235x152	95hm/400W
E800-0055-T3	5,5 kW - 11 A	E4		95hm/550W
E800-0075-T3	7,5 kW - 14 A	E5	156x265x170	95hm/750W
E800-0110-T3	11 kW - 20 A	E5		60hm/1.1kW
E800-0150-T3	15 kW - 26 A	E6	205x340x196	35hm/1.5kW
E800-0185-T3	18,5 kW - 35 A	E6		35hm/2.0kW
E800-0220-T3	22 kW - 40 A	E6		30hm/2.2kW

ELECTROZEP

Inverter E800 - 3x400V - EMC filter OPTIONAL

Model	Rated current	Frame	Dimensions (WxHxD-mm)	Brake resistor min.value
E800-0300-T3	30 kW - 50 A	C3	265x435x235	25 Ohm/3.0kW
E800-0370-T3	37 kW - 68 A	C3		25 Ohm/4.0kW
E800-0450-T3	45 kW - 82 A	C4	314x480x285	15 Ohm/4.5kW
E800-0550-T3	55 kW - 98 A	C5	360x555x265	15 Ohm/5.5kW
E800-0750-T3	75 kW - 130 A	C5		12 Ohm/7.5kW
E800-0900-T3	90 kW - 165 A	C6	410x630x300	8 Ohm/9.0kW
E800-1100-T3	110 kW - 200 A	C6		
E800-1320-T3	132 kW - 240 A	C7	516x760x326	
E800-1600-T3	160 kW - 290 A	C7		
E800-1800-T3	180 kW - 340 A	C8	560x900x342	
E800-2000-T3	200 kW - 380 A	C9	400x1300x385	
E800-2200-T3	220 kW - 420 A	CA	535x1330x380	
E800-2500-T3	250 kW - 460 A	CA		
E800-2800-T3	280 kW - 500 A	CB0	600x1580x380	
E800-3150-T3	315 kW - 550 A	CB0		
E800-3550-T3	355 kW - 610 A	CB0		
E800-4000-T3	400 kW - 670 A	CB	600x1450x380	
E800-4500-T3	450 kW - 730 A	CB		

