



FREQUENCY INVERTER

E 800

The HVAC INVERTER

0,2 – 450 kW

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FREQUENCY INVERTER
E 800
VARIABLE TORQUE INVERTER

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, with 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
- ▶ Application specific hardware available: Special filters (classB), dV/dt limitation PFC chokes build in as standard (inverters above 30 kW)
- ▶ Fieldbus Gateways available for all common used building automation systems
- ▶ 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 / 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.....Input V
	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	2...10 kHz
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)
	Relays	1 switch 5 A 230 V (programmable function)
Specials	MODBUS	Inverter control, reading and setting of all inverter I/O channels
	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
	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

E800 – models - **230 V** Inverters

Inverter E800 - 1 x 230V - EMC filter integrated					
Model	Rated current	Framesize	Dimensions (WxHxD - mm)	Brakechopper	Brake resistor min. value
E800-0002-S2	0,2 kW - 1,5A	E1	80x138x135	INTEGRATED	60 Ohm/150W
E800-0004-S2	0,4 kW - 2,5A	E1			
E800-0005-S2	0,55 kW - 3,5 A	E1			
E800-0007-S2	0,75 kW - 4,5A	E1			
E800-0011-S2	1,1 kW - 5,0 A	E2	106x180x150		
E800-0015-S2	1,5 kW - 7A	E2			
E800-0022-S2	2,2 kW - 10A	E2			

Inverter E800 - 3 x 230V - EMC filter integrated					
Model	Rated current	Framesize	Dimensions (WxHxD - mm)	Brakechopper	Brake resistor min. value
E800-0002-T2	0,2 kW - 1,5A	E1	80x138x135	INTEGRATED	60 Ohm/150W
E800-0004-T2	0,4 kW - 2,5A	E1			
E800-0005-T2	0,55 kW - 3,5 A	E1			
E800-0007-T2	0,75 kW - 4,5A	E1			
E800-0011-T2	1,1 kW - 5,0 A	E2	106x180x150		
E800-0015-T2	1,5 kW - 7A	E2			
E800-0022-T2	2,2 kW - 10A	E2			

All models available out of stock HAMBURG

E800 – models - 400 V Inverters

Inverter E800 - 3x400V - EMC filter integrated					
Model	Rated current	Framesize	Dimensions (WxHxD - mm)	Brakechopper	Brake resistor min. value
E800-0002-T3	0,2 kW - 0,6 A	E1	80x138x135	INTEGRATED	150 Ohm/150W
E800-0004-T3	0,4 kW - 1,0 A	E1			
E800-0005-T3	0,55 kW - 1,5 A	E1			
E800-0007-T3	0,75 kW - 2 A	E2	106x180x150		75Ohm/1000W
E800-0015-T3	1,5 kW - 4 A	E2			
E800-0022-T3	2,2 kW - 6,5 A	E2			
E800-0037-T3	3,7 kW - 8,0 A	E4	138x235x152		30Ohm/1500W
E800-0040-T3	4,0 kW - 9 A	E4			
E800-0055-T3	5,5 kW - 11 A	E4			
E800-0075-T3	7,5 kW - 14 A	E5	156x265x170		2x30Ohm/1500W 15Ohm/3000W
E800-0110-T3	11 kW - 20 A	E5			
E800-0150-T3	15 kW - 26 A	E6			
E800-0185-T3	18,5 kW - 35 A	E6	205x340x196		
E800-0220-T3	22 kW - 40 A	E6			

Inverter E800 - 3x400V - EMC filter integrated					
Model	Rated current	Framesize	Dimensions (WxHxD - mm)	Brakechopper	Brake resistor min. value
E800-0300-T3	30 kW - 50 A	C3	265x435x235	INTEGRATED OPTION	150 Ohm/150W
E800-0370-T3	37 kW - 68 A	C3			
E800-0450-T3	45 kW - 82 A	C4	314×480×285		
E800-0550-T3	55 kW - 98 A	C5	360x555x265		
E800-0750-T3	75 kW - 130 A	C5			
E800-0900-T3	90 kW - 165 A	C6	410x630x300		
E800-1100-T3	110 kW - 200 A	C6			
E800-1320-T3	132 kW - 240 A	C7	516x760x326	EXTERNAL OPTION	75Ohm/1000W
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	600x1450x380		
E800-3150-T3	315 kW - 550 A	CB0			
E800-3550-T3	355 kW - 610 A	CB0			
E800-4000-T3	400 kW - 670 A	CB	600x1580x380		
E800-4500-T3	450 kW - 730 A	CB			

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