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E2000

FREQUENCY INVERTER

0.4 kW - 400 kW





E2000

0.4 kW - 400 kW

FREQUENCY INVERTER

HIGHLIGHTS

High-tech motor control concept, based on advanced DSP-technology - ready for V/Hz, SENSORLESS VECTOR, CLV and permanent magnet synchronous motor control PMSM

Intelligent AUTOTUNING functions for easy setup

Compact in size, modular in concept, rugged construction, build for the worldwide market

Flexible inverter control, dual high resolution analogue inputs, free mapping for all I/O channels

Ready for all commonly used fieldbus systems

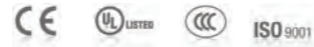
Universal parameter-set for all kind of industrial and residential applications, including integrated PID/ controller routines

Smart PC-tools for inverter control, parametrization and troubleshooting

Parameter-duplication stick

EMC filter(C3 class) integrated, optional C1 footprint filter

Approved and certified for worldwide standards, by independent bodies.



FRAMESIZE

Model	Rated current	Frame	Dimensions (WxHxD-mm)	Brake resistor min.value
E2000-0004 S2	0,4 kW - 2,5 A	E1	80x138x135	80 Ohm/200W
E2000-0007 S2	0,75 kW - 4,5 A			
E2000-0015 S2	1,5 kW - 7 A			
E2000-0022 S2	2,2 kW - 10 A			
E2000-0007 T3	0,75 kW - 2 A	E2	106x180x150	145 Ohm/800W
E2000-0015 T3	1,5 kW - 4 A			100 Ohm/150W
E2000-0022 T3	2,2 kW - 6,5 A			100 Ohm/250W
E2000-0030 T3	3,0 kW - 7 A			100 Ohm/300W
E2000-0040 T3	4,0 kW - 9 A	E3	106x180x170	100 Ohm/400W
E2000-0055 T3	5,5 kW - 12 A			100 Ohm/550W
E2000-0075 T3	7,5 kW - 17 A			75 Ohm/750W
E2000-0110 T3	11 kW - 23 A			75 Ohm/1.1kW
E2000-0150 T3	15 kW - 32 A	E4	142x235x152	35 Ohm/1.5kW
E2000-0185 T3	18,5 kW - 38 A			35 Ohm/2.0kW
E2000-0220 T3	22 kW - 44 A			30 Ohm/2.2kW
E2000-0300 T3	30 kW - 60 A			25 Ohm/3.0kW
E2000-0370 T3	37 kW - 75 A	E5	161x265x170	25 Ohm/4.0kW
E2000-0450 T3	45 kW - 90 A			15 Ohm/4.5kW
E2000-0550 T3	55 kW - 110 A			15 Ohm/5.5kW
E2000-0750 T3	75 kW - 150 A			12 Ohm/7.5kW
E2000-0900 T3	90 kW - 180 A	E6	210x340x196	8 Ohm/9.0kW
E2000-1100 T3	110 kW - 220 A			
E2000-1320 T3	132 kW - 265 A			
E2000-1600 T3	160 kW - 320 A			
E2000-1800 T3	180 kW - 360 A	E7	265x435x235	
E2000-2000 T3	200 kW - 400 A			
E2000-2200 T3	220 kW - 440 A			
E2000-2500 T3	250 kW - 480 A			
E2000-2800 T3	280 kW - 530 A	E8	315x480x234	
E2000-3150 T3	315 kW - 580 A			
E2000-3550 T3	355 kW - 640 A			
E2000-4000 T3	400 kW - 690 A			
E2000-1600 T3	160 kW - 320 A	E9	360x555x265	
E2000-1800 T3	180 kW - 360 A			
E2000-2000 T3	200 kW - 400 A			
E2000-2200 T3	220 kW - 440 A			
E2000-2500 T3	250 kW - 480 A	E10	410x630x300	
E2000-2800 T3	280 kW - 530 A			
E2000-3150 T3	315 kW - 580 A			
E2000-3550 T3	355 kW - 640 A			
E2000-4000 T3	400 kW - 690 A	E11	516x765x326	
E2000-1600 T3	160 kW - 320 A			
E2000-1800 T3	180 kW - 360 A			
E2000-2000 T3	200 kW - 400 A			
E2000-2200 T3	220 kW - 440 A	E12	560x910x342	
E2000-2500 T3	250 kW - 480 A			
E2000-2800 T3	280 kW - 530 A			
E2000-3150 T3	315 kW - 580 A			
E2000-3550 T3	355 kW - 640 A	E13	600x1463x380	
E2000-4000 T3	400 kW - 690 A			
E2000-1600 T3	160 kW - 320 A			
E2000-1800 T3	180 kW - 360 A			
E2000-2000 T3	200 kW - 400 A	E14	600x1593x380	
E2000-2200 T3	220 kW - 440 A			
E2000-2500 T3	250 kW - 480 A			
E2000-2800 T3	280 kW - 530 A			

LCD REMOTE KEYPAD FOR CABINET IP66



PARAMETER COPY STICK



TECHNICAL DATA

Power input	Rated input voltage	3-Phase 380V-460V (+/-15%) 1-Phase 220V ~ 240V (+/-15%)	
	Input frequency	44...67 Hz	
	EMC filter	Integrated for 2. environment (C3) - C1 footprint filter as option	
Motor output	Output voltage	0.....V-input	
	Output frequency	0.....650 Hz (1500HZ OPTION)	
	Frequency resolution	0,01 Hz	
	Overload capability	150% - 60 sec / 10 min	
Control mode	Motor control algorithm	V/Hz-SpaceVector, SLV-SENSORLESS VECTOR,Torque/Speed control mode, CLV-Closed loop vector, Sensorless permanentmagnet synchronous motor control PMSM	
	Chopper frequency	0.8...16 kHz (fixed / random pattern)	
	V/Hz curve	Linear, exponential, and user-programmable curve	
	Starting torque	150% rated torque at 0,5 Hz (in SLV Mode)	
	Torque compensation	Automatic / Manual	
	Motor data input	Manual, from nameplate / AUTOTUNING	
	Control range	1:100 in SLV mode,1:1000 in CLV mode,1:20 in PMSM mode	
	Speed precision	+/- 0,5% (SLV), +/- 0,02% (CLV)	
	Torque precision	+/- 5% (SLV)	
	DC-brake	User programmable functions	
	Brake chopper	Chopper transistor integrated (up to 110 KW)	
	Display	7 segment, 4 characters	Config-Parameters and -value, programmable to display various working parameters
I/O channels, control functions	Inverter control	Via terminals / Keypad / Serial link (or combination of all)	
	Digital inputs	6 (8) Dig. inputs (NPN-PNP selectable) pulstrain-input	
	Speed reference input	Potentiometer (on keypad unit, external), analogue signal (terminals), Keypad control, pulsetrain, serial link	
	Analogue channels	2 analogue channels - 12 BIT: 0...10V, 0...5V, -10V...0...10V, 0...(4)20 mA, all free scalable in gain and offset, and mathematically concatenable	
	Analogue outputs	2 analogue outputs, programmable in gain and function (0...10V, 0(4)..20 mA)	
	Digital outputs	1(2) digital OC outputs (free mapping to different functions)	
	Relais output	1 switchover contact 3A 250VAC/30VDC (programmable assignment)	
	Data link	Serial link RS 485 (MODBUS ASCII/RTU)	
Specials	24V / 50 mA auxiliary power supply on terminals, 10V potentiometer power supply, 5V/100 mA power supply on modbus connector Simple PTC / KLIXON motor protection		
Electronic protections with fault memory	Electrical	Over-voltage, under-voltage	
	Thermal	Over-current, overload, short circuit Inverter over temperature, motor-overload I ² t simple PTC read-in	
Options	Display	Remote display / keypad unit	
	Brake chopper	Brake resistors for all kind of applications	
	PC-software	Configuration-, control- and diagnosis-tools, parameter duplicating stick, IP66 remote keypad with 4 line	
	Parameter stick	Character display	
Environmental and operating conditions	Protection class	IP20 / IP21(optional)	
	working temperature	-10.....+50 °C	
	Humidity	0 to 95% RH, non-condensing, non-corrosive	
	Altitude	1000 m, above 1% derating / 100m	
Vibration	Max. 0,5 g		
Power range	0,4.....400 kW		
Standards	Electromagnetic compatibility	EN61800-3(2004)	
	safety	EN61800-5-1 2003	