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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 PMM motor control - 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 mappable digital I/O channels

Ready for all commonly used fieldbus systems

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

Smart PC-tools, for inverter control, parametrization and troubleshooting. Parameter-duplication stick

EMC filter (C3 class) integrated

Approved for worldwide standards by independent bodies

LCD REMOTE KEYPAD FOR C ABINET **IP66**

CABLE FOR REMOTE KEYPAD **IP66**

PARAMETER **COPY STICK**

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	E2	106x180x150	
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	E3	106x180x170	100 Ohm/300W
E2000-0040 T3	4,0 kW - 9 A	E4	142x235x152	100 Ohm/400W
E2000-0055 T3	5,5 kW - 12 A			100 Ohm/550W
E2000-0075 T3	7,5 kW - 17 A	E5	161x265x170	75 Ohm/750W
E2000-0110 T3	11 kW - 23 A			75 Ohm/1.1kW
E2000-0150 T3	15 kW - 32 A	E6	210x340x196	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	C3	265×435×235	25 Ohm/3.0kW
E2000-0370 T3	37 kW - 75 A	C4	315×480×234	25 Ohm/4.0kW
E2000-0450 T3	45 kW - 90 A			15 Ohm/4.5kW
E2000-0550 T3	55 kW - 110 A	C5	360x555x265	15 Ohm/5.5kW
E2000-0750 T3	75 kW - 150 A			12 Ohm/7.5kW
E2000-0900 T3	90 kW - 180 A	C6	410x630x300	8 Ohm/9.0kW
E2000-1100 T3	110 kW - 220 A			Option
E2000-1320 T3	132 kW - 265 A	C7	516x765x326	
E2000-1600 T3	160 kW - 320 A	C8	560x910x342	
E2000-1800 T3	180 kW - 360 A			
E2000-2000 T3	200 kW -400 A	C9	400x1310x385	
E2000-2200 T3	220 kW - 440 A			
E2000-2500 T3	250 kW - 480 A	CA	535x1340x380	
E2000-2800 T3	280 kW - 530 A			
E2000-3150 T3	315 kW - 580 A	CB0	600x1463x380	
E2000-3550 T3	355 kW - 640 A			
E2000-4000 T3	400 kW - 690 A	CB	600x1593x380	

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 - industrial area (optional for residential area)
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,Permanent Magnet Synchronous Motor PMSM SENSORLESS control
	Chopper frequency	0.8...16 kHz (fixed / random)
	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 90 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, internal programmable value, 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	2 digital outputs (free mapping to different functions)
	Relais output	1 switchover contact 3A 250VAC/30VDC (programmable assignment)
	Data link	Serial link RS 485 (MODBUS)
	Special functions	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 history	Electrical	Overvoltage, undervoltage Overcurrent, overload, motor-overload, output short-circuit
	Thermal	Heatsink overtemperature, I^2xt motorprotection
Options	Display	Remotable display / keypad units
	Brake chopper	Braking resistors for different load characteristics
	PC-software Parameter Stick	Configuration-, control- an diagnosis-tools, parameter duplicating stick, IP66 remote keypad with 4 line 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