



## PRODUCTS BROCHURE



**AS THE TIME  
GOES BY  
WE HAVE  
CONSTANTLY  
MADE  
QUALITY A TOP  
PRIORITY**

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Since we made our first AC drive 25 years ago, we have always earned the crown from our customers as the most reliable and trustworthy brand. It is because we have never stopping put quality and reliability as the first strategic priority.



**EURA**<sup>®</sup>  
DRIVES

# EURA Drives

# A Drives Company

EURA Drives as a professional company on the drives business market has 25 year's experiences. Our more than 1000 high motivated employees all over the world contribute to the success and the rapid growth of EURA Drives. The best trained drives experts in Europe guarantee the professional support and services for our customers. The central stock at the European headquarters in Hamburg makes it possible for the full availability and quick delivery for all our products. All products are compliant with international standards. Individual approvals, performed and certified by independent bodies, give our customers the trust in a world class products.



2010



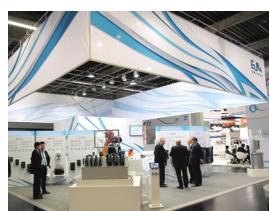
2011



2012



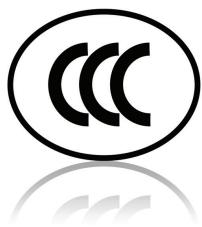
2013



2014



2015



ISO 9001  
I20 000J

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■ FREQUENCY INVERTER

# MULTI LANGUAGE KEYPAD



E 800

E 2000

EP 66

EM 30

- Universal remote keypad- display unit, compatible with all EURA Drives products
- Robust, for any critical environments, IP66 waterproof / shockproof
- Easy to mount on cabinet door
- Multilanguage – 4 line character display, backlight with graphical functions
- Parametrizing tool, parameter copy/duplicating function
- Simple to customize – open software code, ready for easy customer branding

■ FREQUENCY INVERTER

15 kW - 500 kW

# HFR 1000 / 2000

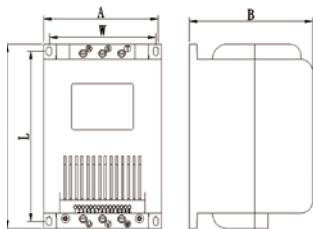


- ▶ For smooth start of any kind of asynchronous motors, reduction of inrush current and mechanical stress.
- ▶ Startup control mode:
  - Current mode: Start ramp at defined current limit
  - Voltage mode: Startup at defined voltage ramp
  - Boost function
- ▶ Startup control mode:
  - Free stop by inertia
  - Stop controlled by voltage ramp

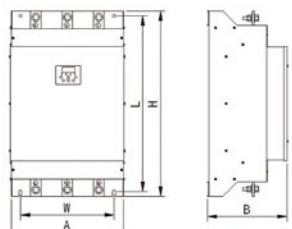
- ▶ Controlmode: - Keypad, terminal, MODBUS
- ▶ Startup control mode:
  - Programmable I/O channels
  - MODBUS interface
  - Integrated LED display, to set parameters and to display drive status
  - Optional remote control
  - Relay output for Bypass with programmable delay
  - Status relays output
  - Parallel operation of multiple motors
- ▶ Intelligent protection functions:
  - Overcurrent, overtemperature, motor overload, phase symmetry

## HFR 1000 - Technical product data

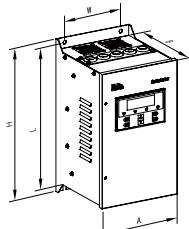
Model	Applicable Motor (KW)	Rated Input Voltage(V)	Rated Input Current(A)	Structure Code	External Dimension (A*B*H)	Mounting Size (W*L)	Remarks
HFR1015	15	~380 three-phase	30	R1	250*153*162	219*140	Plastic Hanging
HFR1022	22	~380 three-phase	45	R1	250*153*162	219*140	
HFR1030	30	~380 three-phase	60	R1	250*153*162	219*140	
HFR1037	37	~380 three-phase	75	R1	250*153*162	219*140	
HFR1045	45	~380 three-phase	90	R1	250*153*162	219*140	
HFR1055	55	~380 three-phase	110	R1	250*153*162	219*140	
HFR1075	75	~380 three-phase	150	R2	510*260*194	389*232.5	
HFR1090	90	~380 three-phase	180	R2	510*260*194	389*232.5	
HFR1110	110	~380 three-phase	220	R2	510*260*194	389*232.5	
HFR1132	132	~380 three-phase	260	R2	510*260*194	389*232.5	
HFR1160	160	~380 three-phase	320	R2	510*260*194	389*232.5	
HFR1220	220	~380 three-phase	440	R3	590*360*255	560*300	Metal Hanging
HFR1250	250	~380 three-phase	500	R3	590*360*255	560*300	
HFR1280	280	~380 three-phase	560	R3	590*360*255	560*300	
HFR1315	315	~380 three-phase	630	R3	590*360*255	560*300	



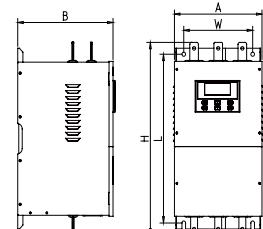
R1 - R2



R3



RC1



RC2 - RC4

## HFR 2000 - Technical product data

Model	Applicable Motor (KW)	Rated Input Voltage(V)	Rated Input Current(A)	Tructure Code	External Dimension (A*B*H)	Mounting Size (W*L)	Remarks
HFR2015	15	~380 three-phase	30	RC1	370*200*220	150*350	Metal Hanging
HFR2022	22	~380 three-phase	45	RC1	370*200*220	150*350	
HFR2030	30	~380 three-phase	60	RC1	370*200*220	150*350	
HFR2037	37	~380 three-phase	75	RC1	370*200*220	150*350	
HFR2045	45	~380 three-phase	90	RC1	370*200*220	150*350	
HFR2055	55	~380 three-phase	110	RC1	370*200*220	150*350	
HFR2075	75	~380 three-phase	150	RC2	487.5*254*276.5	200*424.5	
HFR2090	90	~380 three-phase	180	RC2	487.5*254*276.5	200*424.5	
HFR2110	110	~380 three-phase	220	RC2	487.5*254*276.5	200*424.5	
HFR2132	132	~380 three-phase	260	RC2	487.5*254*276.5	200*424.5	
HFR2160	160	~380 three-phase	320	RC2	487.5*254*276.5	200*424.5	
HFR2200	200	~380 three-phase	400	RC3	555*364.5*351.5	322*475	
HFR2220	220	~380 three-phase	440	RC3	555*364.5*351.5	322*475	
HFR2250	250	~380 three-phase	400	RC3	555*364.5*351.5	322*475	
HFR2280	280	~380 three-phase	560	RC3	555*364.5*351.5	322*475	
HFR2315	315	~380 three-phase	630	RC3	555*364.5*351.5	322*475	
HFR2355	355	~380 three-phase	700	RC4	660*475.5*317.5	402*607.5	
HFR2400	400	~380 three-phase	800	RC4	660*475.5*317.5	402*607.5	
HFR2450	450	~380 three-phase	900	RC4	660*475.5*317.5	402*607.5	
HFR2500	500	~380 three-phase	1000	RC4	660*475.5*317.5	402*607.5	

## HFR1000/HFR2000 Structure Instruction

Item	Contents	
Input power supply	AC 400V±20%, 50/60Hz	
Applicable motor	Standard asynchronous motor	
Startup mode	Voltage ramp startup (1~120s); Current limiting startup; Kick startup, Jogging startup (Only for HFR2000)	
Stop mode	Free STOP, Voltage controlled STOP	
Analog output	Current mode output 0(4).....20 mA	
Relay output	Bypass control relays (7A/230V), fault relays	
Protection function	Out phase, over-load, over current over-heating	
Protection level	IP20	
Cooling	Convection cooling (HFR1000) forced ventilation (HFR2000)	
Installation mode	Cabinet mounting	
Environment conditions	Equipment Location	In an indoor location, Prevent exposure from direct sunlight, Free from dust, tangy caustic gases, flammable gases, steam or the salt-contained, etc.
	Environment Temperature	-10°C~+45°C
	Environment Humidity	Below 95%
	Vibration Strength	Below 0.5g
	Height above sea level	1000m or below

■ FREQUENCY INVERTER

# E 800

0.2 kW - 110 kW



- ▶ 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/O hardware channels
- ▶ In this way, the inverter I/O hardware can be implemented in subordinated control systems
- ▶ 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” function.
- ▶ PC-Software, for inverter control and programming, diagnosis and troubleshooting
- ▶ Smart parameter copy tools

## E 800 - Technical product data

<b>Power input</b>	Supply voltage	3-Phase 380 - 460V +/- 15% 3-Phase 230V +/-15% 1-Phase 230V +/-15%
	Input frequency	44....67 Hz
	EMC filter	Integrated for second environment (industrial area) - option for first environment (residential area)
<b>Motor output</b>	Output voltage	0.....V-input
	Output frequency	0,5.....650 Hz
	Overload capability	120% - 60 sec / 15 min
<b>Control-Mode</b>	V/Hz	Linear, Variable torque curve, user programmable curve
	PWM frequency	800...10000Hz (FIXED / RANDOM)
<b>Display</b>	LED 7-segment display	Programmable, to display various inverter and working parameters
<b>Control hardware (I/O)</b>	Digital inputs	5 dig. inputs (PNP/NPN)
	Analogue inputs	2 x 12 BIT analogue inputs 0...10V, 0(4)...20 mA)
	Analogue outputs	1 analogue output, to assign to various functions (0...10V, 0..20 mA)
	Digital outputs	2 digital outputs (free assignment to different functions)
	Relais	1 switchover contact 5 A 230 V (programmable function)
	MODBUS	Inverter control, reading and setting of all inverter I/O channels
<b>Specials</b>	Aux. power supply	Auxiliary power supply: 24V / 50 mA – on terminals 10V potentiometer power supply
<b>Protection functions with Fault memory</b>	Electrical protections	Overvoltage, undervoltage Overcurrent, overload, motor overload, short circuit
		Input phase loss, motor phase loss
	Thermal protections	Inverter overtemperature, motor-overload $I^2xt$
<b>Optionals and accessories</b>	Display / keypad	Remote display / keypad unit
	Brake	Brake resistors for all kind of applications
	PC-Link Software	Smart tool for parameter setting, control and diagnosis
	Fieldbus	Gateway modules for all commonly used bus technologies
	Parameter copy stick	Smart tool for parameter storage and duplication
<b>Environmental and operating conditions</b>	Protection degree	IP20 / IP21 (option)
	Operating temperature	-10.....+50 °C
	Humidity	Max. 90 % non condensing, non corrosive
	Altitude	1000 m, above derating of 1% / 100m

## E 800 – 230 / 240V Inverters

Inverter E800 - 1 x 230V / 240V

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

Inverter E800 - 3 x 230V / 240V

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

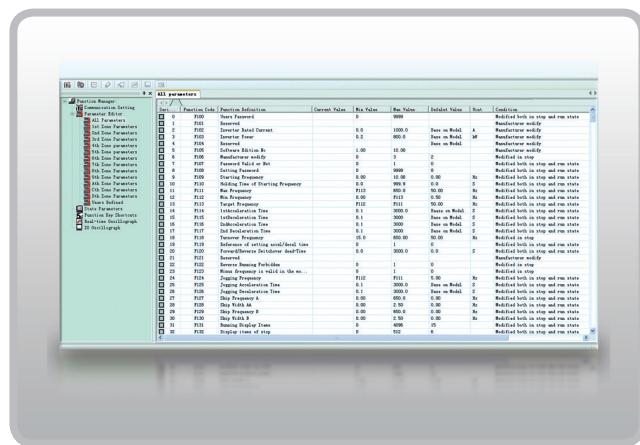
## E 800 – 400 / 460V Inverters

Inverter E800 - 3 x 400V / 460V

Model	Rated current	Frame-size	Dimensions (WxHxD-mm)	Brake resistor min.value
E800-0007-T3	0,75 kW - 2 A	E2	106x180x150	150 Ohm/80W
E800-0015-T3	1,5 kW - 4 A			150 Ohm/150W
E800-0022-T3	2,2 kW - 6,5 A			150 Ohm/150W
E800-0030-T3	3,0 kW - 7 A	E3	106x180x150	150 Ohm/300W
E800-0040-T3	4,0 kW - 9 A			150 Ohm/400W
E800-0055-T3	5,5 kW - 11 A	E4	138x235x152	100 Ohm/550W
E800-0075-T3	7,5 kW - 14 A			100 Ohm/750W
E800-0110-T3	11 kW - 20 A			100 Ohm/1.1kW
E800-0150-T3	15 kW - 26 A	E6	205x340x196	50 Ohm/1.5kW
E800-0185-T3	18,5 kW - 35 A			50 Ohm/2.0kW
E800-0220-T3	22 kW - 40 A			50 Ohm/2.2kW
E800-0300-T3	30 kW - 50 A	C3	265x435x235	25 Ohm/3.0kW
E800-0370-T3	37 kW - 68 A			25 Ohm/3.0kW

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

Model	Rated current	Frame	Dimensions (WxQxD-mm)	Brake resistor min.value
E800-0450-T3	45 kW - 82 A	C4	314x480x235	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		516x760x326
E800-0900-T3	90 kW - 165 A	C6	410x630x300	8 Ohm/9.0kW
E800-1100-T3	110 kW - 200 A	C6		Optional brake-unit



PC-SOFTWARE

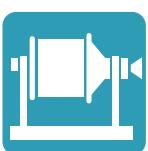


CONVERTER &  
PARAMETER COPY BOX

FREQUENCY INVERTER

# E 2000

0.4 kW - 400 kW



- ▶ 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.
- ▶ Approved for worldwide standards by independent bodies.

## E 2000 - Technical product data

<b>Power input</b>	Rated input voltage	3-Phase 380 - 460V +/- 15% 1-Phase 230/240V +/- 15%
	Input frequency	44....67 Hz
	EMC Filter	Integrated for 2. environment - industrial area (optional for residential area)
<b>Motor output</b>	Output voltage	0.....V-input
	Output frequency	0.....650 Hz (1500HZ OPTION)
	Frequency resolution	0,01 Hz
	Overload capability	150% - 60 sec. / 10 min
	Motor control algorithm	V/Hz-SpaceVector, SLV-SENSORLESS VECTOR,Torque/Speed control mode CLV-Closed loop vector,Permanent Magnet Synchronous Motor PMSM SENSORLESS control
<b>Control Mode</b>	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)



DATA LINK

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<b>Display</b>	7 segment, 4 characters	Config-Parameters and -value, programmable to display various working parameters
<b>I/O Channels, control functions</b>	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 5 A 230 V (programmable assignment)
	Data link	Serial link RS 485 (MODBUS)
	Special functions	12V / 50 mA auxiliary power supply on terminals, 10V potentiometer power supply, 5V/100 mA power supply on modbus connector Simple PTC / KLIXON motor protection
<b>Electronic protections with fault history</b>	Electrical	Overvoltage, undervoltage Overcurrent, overload, motor-overload, output short-circuit
	Thermal	Heatsink overtemperature, I <sup>2</sup> xt motorprotection
<b>Options</b>	Display	Removable display / keypad units
	Brake chopper	Braking resistors for different load characteristics
	PC-software Parameter Stick	Configuration-, control- and diagnosis-tool, parameter saving and duplicating For parameter duplicating
<b>Environmental and operating conditions</b>	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
<b>Power range</b>	0,4.....400 kW	
<b>Standards</b>	Electromagnetic compatibility	EN61800-3(2004)
	Safety	EN61800-5-1 2003

## E 2000 - Products and Framesizes

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	138x235x152	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	265x435x235	25 Ohm/3.0kW	
E2000-0370 T3	37 kW - 75 A	C4	314x480x285	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				
E2000-1320 T3	132 kW - 265 A	C7	516x760x326		
E2000-1600 T3	160 kW - 320 A	C8	560x1000x326		
E2000-1800 T3	180 kW - 360 A				
E2000-2000 T3	200 kW - 400 A	C9	400x1300x385		
E2000-2200 T3	220 kW - 440A	CA	535x1330x380	Option	
E2000-2500 T3	250 kW - 480 A				
E2000-2800 T3	280 kW - 530 A	CB0	600x1450x380		
E2000-3150 T3	315 kW - 580 A				
E2000-3550 T3	355 kW - 640 A				
E2000-4000 T3	400 kW - 690 A	CB	600x1580x380		

■ FREQUENCY INVERTER

# EM 30

0.4 kW - 15 kW



- ▶ High-tech motor control concept, based on advanced DSP-technology V/Hz, SENSORLESS VECTOR, PMM synchronous motor control mode - SPEED / TORQUE control Intelligent AUTOTUNING functions for easy set-up.
- ▶ Rugged construction, all metal enclosure, thermally decoupled from motor, IP67 / NEMA4, shock proof (4G).
- ▶ Flexible configurable man/machine interface – fieldbus capability
- ▶ Numerous functions, to make it suitable for all kind of industrial and residential applications, and for retrofit as well
- ▶ Smart PC-tools, for inverter control, -paramtrization and –troubleshooting. Parameter-duplication stick.
- ▶ Approved for worldwide standards by independent bodies.

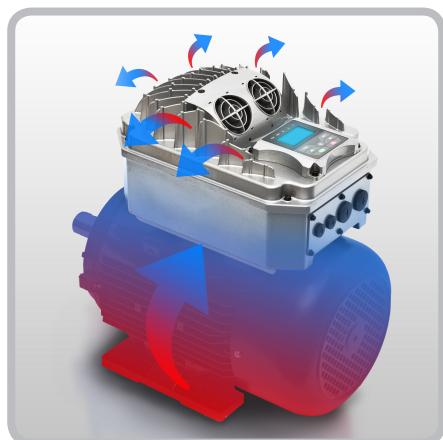
## EM 30 - Technical product data

<b>Power input</b>	Rated input voltage	3-Phase 380 - 460V +/- 15% 1-Phase 230/240V +/- 15%
	Input frequency	44....67 Hz
	EMC Filter	Integrated for 2. environment - industrial area (optional for residential area)
<b>Motor output</b>	Output voltage	0.....V-input
	Output frequency	0.....650 Hz (1500HZ OPITION)
	Frequency resolution	0,01 Hz
	Overload capability	150% - 60 sec. / 10 min
	Motor control algorithm	V/Hz-SpaceVector - SLV-SENSORLESS Vector control - Torque/Speed control mode. CLV-Closed loop vector - Permanent Magnet Synchronous Motor PMSM SENSORLESS control
<b>Control Mode</b>	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
	Speed 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 22 kW)
<b>Display</b>	Character display	Config-Parameters and -value, programmable to display various working parameters

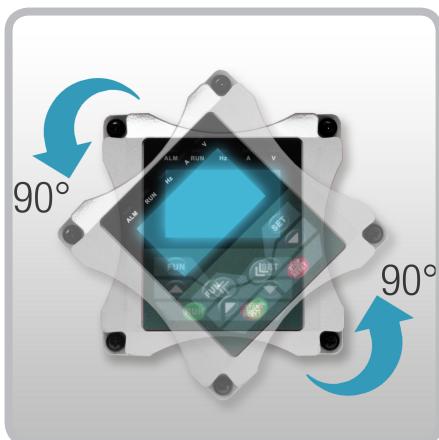
<b>I/O Channels</b>	Analogue channels	2 analogue channels - 12 BIT: 0...10V, 0...5V, -10V...0...10V, 0..(4)20 mA, all free scalable in gain and offset, and mathematically concatenable
	Analogue outputs	2 analogue outputs, programmable in gain and function (0...10V, 0(4)..20 mA)
	Digital outputs	1 switchover contact 5 A 230 V (programmable assignment)
	Relais output	2 analogue outputs, programmable in gain and function (0...10V, 0(4)..20 mA)
	Data link	Serial link RS 485 (MODBUS)
<b>Special functions</b>	Special functions	12V / 50 mA auxiliary power supply on terminals, 10V potentiometer power supply, 5V/100 mA power supply on modbus connector PTC / KLIXON motor protection
<b>Electronic protections with fault history</b>	Electrical	Overvoltage, undervoltage Overcurrent, overload, motor-overload, output short-circuit Input phaseloss, motor phase unbalance
	Thermal	Heatsink overtemperature, lxt motorprotection
<b>Optionals</b>	Display	Removable display / keypad units
	Brake chopper	Braking resistors for different load characteristics
	PC-software Parameter copy stick	Configuration-, control- and diagnosis-tool, parameter saving and duplicating For parameter duplicating
<b>Environmental and operating conditions</b>	Protection class	IP67 / NEMA4 motor/wall mountable
	Operating temperature	-10.....+50 °C – -40°C with automatic antifreeze control function (option)
	Humidity	0 to 95% RH, non-condensing, non-corrosive
	Altitude	1000 m, above: 1% derating / 100m
<b>Power range</b>	0,4.....15 kW	
<b>Standards</b>	Electromagnetic compatibility	EN61800-3(2004)
	Safety	EN61800-5-1 2003

## EM 30 - Products and Framesizes

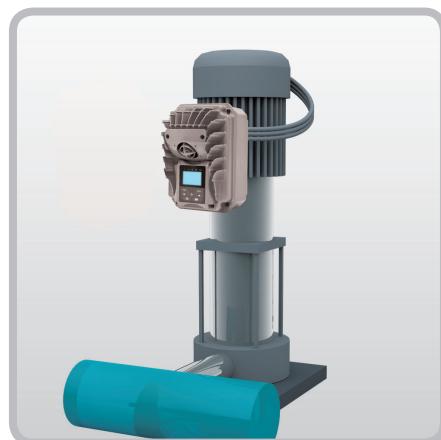
Model	Motor power (kW)	Frame-size	Dimensions (WxHxD-mm)	Remarks
EM30-0004S2	0.4 kW - 2.5 A	J1	186x266x180	1-phase 220V
EM30-0007S2	0.75 kW - 4,5A			
EM30-0015S2	1.5 kW - 7A			
EM30-0022S2	2.2 kW - 10A			
EM30-0004T2	0.4 kW - 2,5A			
EM30-0007T2	0.75 kW - 4,5A			
EM30-0015T2	1.5 kW - 7A			
EM30-0022T2	2.2 kW - 10A			
EM30-0007T3	0.75 kW - 2A			
EM30-0015T3	1.5 kW - 4A			
EM30-0022T3	2.2 kW - 6,5A	J2	215x325x190	3-phase 220V
EM30-0030T3	3.0 kW - 7A			
EM30-0040T3	4.0 kW - 9A			
EM30-0055T3	5.5 kW - 12A	J3	280x380x220	3-phase 380V
EM30-0075T3	7.5 kW - 17A			
EM30-0110T3	11 kW - 23A	J3	280x380x220	
EM30-0150T3	15 kW - 32A			



**THERMALLY DECOUPLED  
FROM MOTOR**



**REMOVABLE KEYPAD  
& 90° ROTATION**



**DECENTRAL**

FREQUENCY INVERTER

# EP 66

0.4 kW - 90 kW



WASSERDICHT



STAUBSICHER

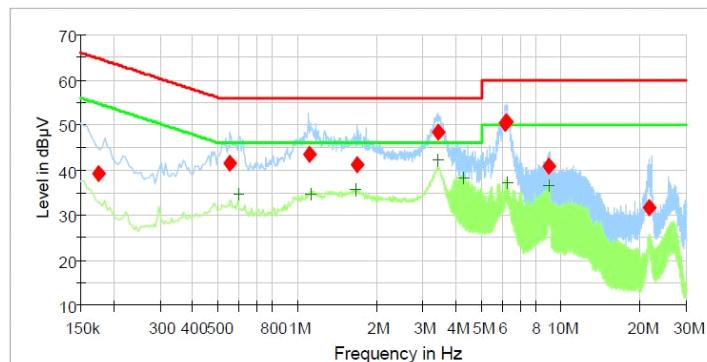


- DSP based high-tech motor control concept, suitable for V/Hz, SENSORLESS VECTOR, PMM synchronous motor control. SPEED / TORQUE control mode, Intelligent AUTOTUNING functions for easy set-up.
- Rugged construction, IP66 / NEMA4
- Flexible configurable character display – fieldbus capability
- Removable cable conduit plate, including vent with humidity barrier
- Room inside the drive, for customer options, like main- / emergency switch, start/stop selectors, potentiometer and brake resistor.
- Optional BYPASS switch build in
- EMC filter build in for 1. environment, for residential area EMC compatibility

- ▶ All standard inverter functions build in, to make it suitable for various applications, and for retrofit as well.
- ▶ Smart PC-tools, for inverter control, -paramtrization and -troubleshooting. Parameter-duplication stick.
- ▶ Ready for the worldwide market, due to approved international standards.

## EP 66 - Technical product data

Power input	Rated input voltage	3-Phase 380 - 460V +/- 15% 1-Phase 230/240V +/- 15%
	Input frequency	44....67 Hz
	EMC Filter	Integrated for 2. environment - industrial area (optional for residential area – add-on box)
Motor output	Output voltage	0.....V-input
	Output frequency	0.....650 Hz (1500HZ OPITION)
	Frequency resolution	0,01 Hz
	Overload capability	150% - 60 sec. / 10 min
Control Mode	Motor control algorithm	V/Hz-SpaceVector, SLV-SENSORLESS Vector control, Torque/Speed control mode. CLV-Closed loop vector, Permanent Magnet Synchronous Motor PMSM SENSORLESS control
	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
Display	Brake chopper	Chopper transistor integrated (up to 90 kW)
	7 segment, 4 characters LCD	To display configuration parameters and, programmable to show various operating parameters



C1 EMC Filter Test Result by German independent test body

<b>I/O Channels, control functions</b>	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 assignment to different functions)
	Relais output	1 switchover contact 5 A 230 V (programmable assignment)
	Data link	Serial link RS 485 (MODBUS)
	Special functions	12V / 50 mA auxiliary power supply on terminals, 10V potentiometer power supply, 5V/100 mA power supply on modbus connector Simple PTC / KLIXON motor protection
<b>Electronic protections with fault history</b>	Electrical	Overvoltage, undervoltage Input phaseloss, motor phase unbalance
	Thermal	Heatsink overtemperature, I <sup>2</sup> xt motorprotection
<b>Optionals</b>	Display	Removable display / keypad units
	Brake chopper	Braking resistors for different applications and load characteristics
	Power control options	Main switch, emergency switch, BYPASS switch,
	Inverter control options	Potentiometer, inverter control selector switches
	PC-software Parameter Stick	Configuration-, control- and diagnosis-tool, parameter saving and duplicating For parameter duplicating
<b>Environmental and operating conditions</b>	Protection class	IP66 / NEMA4
	Operating temperature	-10.....+50 °C (-40 with optional antifreeze control)
	Humidity	0 to 95% RH, non-condensing, non-corrosive
	Altitude	1000 m, above 1% derating / 100m
	Vibration	Max. 1,0 g
<b>Power range</b>	0,4.....90 kW	
<b>Standards</b>	Electromagnetic compatibility	EN61800-3(2004)
	Safety	EN61800-5-1 2003

## EP 66 - Products and Framesizes

Model	Motor power Rated current	Framesize	Dimension (W x H x D-mm)	Brake resistor Min. value
EP66-0004S2	0.4kW - 2,5 A	I1	205x412x198	80 Ohm
EP66-0007S2	0.75kW - 4,5 A			
EP66-0015S2	1.5 kW - 7 A			
EP66-0022S2	2.2kW -10A			
EP66-0004T2	0.4kW- 2.5A			
EP66-0007T2	0.75kW - 4.5A			
EP66-0015T2	1.5kW - 7A			
EP66-0022T2	2.2kW - 10A			
EP66-0004T3	0.4kW - 1.2A			
EP66-0007T3	0.75kW - 2A			
EP66-0015T3	1.5kW - 4A			
EP66-0022T3	2.2kW - 6.5A			
EP66-0030T3	3.0kW - 7A	I2	246x420x198	150 Ohm
EP66-0040T3	4.0kW - 9A			
EP66-0055T3	5.5kW - 12A			
EP66-0075T3	7.5kW - 17A	I3	246x470x230	100 Ohm
EP66-0110T3	11kW - 23A			
EP66-0150T3	15kW - 32A			
EP66-0185T3	18.5kW - 38A	I4	246x650x326	50 Ohm
EP66-0220T3	22kW - 44A			
EP66-0300T3	30kW - 60A			
EP66-0037T3	37kW - 75A	I5	308x680x376	20 Ohm
EP66-0450T3	45kW - 90A			
EP66-0550T3	55kW - 110A			
EP66-0750T3	75kW - 150A	I6	370x770x401	15 Ohm
EP66-0900T3	90kW - 180A			



OPTIONAL MAIN- /  
EMERGENCY SWITCH -  
INVERTER CONTROL



OPTIONAL BYPASS  
SWITCH

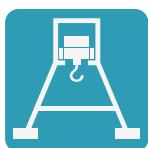


ROOM FOR BUILD-IN  
OPTIONALS

FREQUENCY INVERTER

# E 2000Q

0.75 kW - 180 kW



- ▶ Full torque at zero speed (with closed loop VECTOR option)
- ▶ High overload capability: 200% for 2 sec.
- ▶ Smart brake control algorithm, for crane and hoist applications.
- ▶ Multiple motor control (open loop).
- ▶ Positioning function.
- ▶ Intelligent "no trip" functions, to guarantee reliable operation.
- ▶ Fault-memory and troubleshooting functions.

## E 2000Q - Technical product data

<b>Power input</b>	Rated Voltage Range	3-phase 380 - 460V (+/-15%)
	Rated Frequency	44/67Hz
<b>Motor output</b>	Output Voltage	0.....Input voltage
	Output Frequency	0.50-150.0Hz
<b>Motor output</b>	Carrier Frequency	800~16000Hz; Fixed carrier-wave and random carrier-wave
	Input Frequency Resolution	Digital setting: 0.01Hz, analog setting: max frequency0.1%
<b>Control Mode</b>	Motor type	Asynchronous motor
	Start Torque	0.5HZ 100% (V/F), 0.5HZ 150% (SVC), 0HZ 180% (VC)
	Speed-control Range	1:100 (SVC) ; 1:1000(VC)
	Speed precision	±0.5% (SVC) ; ±0.02%(VC)
	Overload Capability	150% rated current, 60 seconds. 200% rated current, 2seconds.
	Torque control	Auto torque promotion, manual Torque Promotion includes 1-20 curves.
	V/F Curve	Linear, square type and user-defined V/F curve.
	Torque precision	+/- 5% (SLV)
	DC-Brake	User programmable functions
	Auto voltage regulation (AVR)	To compensate power supply fluctuations
	Fixed frequencies, AUTOCYCLING function	Up to 15 fixed frequencies are programmable, including automatic cycling function.
	Acceleration/deceleration time selection	Linear or S curve

<b>Control Mode</b>	Logic braking function	It can avoid inverter dropping down.
	Swift Lift Acceleration Function	Inverter will calculate max output frequency automatically at the light load status.
	Heavy load deceleration function	When load is too heavy, the load will not be raised up.
	Impact Stop Function	It can realize position limit in lifting situation.
	Motor Switch Function	Separate motors can be operated from a single drive.
	Suspending at zero speed in closed loop vector control mode	It can avoid heavy objects falling down when braking fault occurs.
	Decreasing speed with dropping voltage	When bus voltage is low consistently, output frequency will be decreased to keep inverter normal output, which will avoid under voltage fault during running process.
<b>Operation Function</b>	Frequency Setting	Potentiometer or external analog signal (0-5V, 0-10V, 0-20mA); keypad (terminal) / keys, external control logic and automatic circulation setting.
	Start/Stop Control	Terminal control, keypad control or communication control.
	Running Command Channels	3 kinds of channels from keypad panel, control terminal and Modbus.
	Frequency Source	Frequency sources: given digit, given analog voltage, given analog current and given Modbus.
	Accessorial frequency Source	7 kinds of accessorial frequency
<b>Optional</b>	Built-in EMI filter, built-in braking unit, Modbus, remote-control panel	
<b>Protection functions</b>	Input phase loss, output phase unbalance, under-voltage, over-voltage, over-current, inverter over-load, motor over-load, over-heat, under-load, pressure control, analog line disruption.	
<b>Display</b>	LED 7 segment display, for parameter and operating data display - programmable.	
<b>Environment Conditions</b>	Environment Temperature	-10°C - +50°C
	Humidity	Below 90% (no water-bead coagulation)
	Vibration	1G
	Working altitude	1000m, above derating - 10% / 100m
<b>Protection level</b>	IP20	
<b>Applicable Motor</b>	0.2-400kW	

## E 2000Q - Products and Framesizes

Model	Motor (kW)	Rated voltage	Rated Current	Structure Code	Remarks	
E2000-0007T3F2BRQ	0.75	380	2.0	E2	Three-Phase Plastic Hanging	
E2000-0015T3F2BRQ	1.5		4.0			
E2000-0022T3F2BRQ	2.2		6.5			
E2000-0030T3F2BRQ	3.0		7.0	E3		
E2000-0040T3F2BRQ	4.0		9.0	E4		
E2000-0055T3F2BRQ	5.5		12.0			
E2000-0075T3F2BRQ	7.5		17.0	E5		
E2000-0110T3F2BRQ	11		23.0			
E2000-0150T3F2BRQ	15		32.0	E6		
E2000-0185T3F2BRQ	18.5		38.0			
E2000-0220T3F2BRQ	22		44.0	C3		
E2000-0300T3F2BRQ	30		60			
E2000-0370T3F2BRQ	37		75	C4		
E2000-0450T3F2BRQ	45		90	C5		
E2000-0550T3F2BRQ	55		110			
E2000-0750T3F2BRQ	75		150	C6	Three-phase Metal hanging	
E2000-0900T3F2BRQ	90		180			
E2000-1100T3F2BRQ	110		220	C7		
E2000-1320T3F2BRQ	132		265			
E2000-1600T3F2BRQ	160		320	C8		
E2000-1800T3F2BRQ	180		360			



CRANE



GANTRY



ELECTRIC HOIST

■ PERMANENT MAGNET MOTOR

# EVPM lighter, Smaller, better

**B3** 0.4 kW - 30 kW  
**B5** 0.4 kW - 30 kW  
**B14** 0.4 kW - 7.5 kW



- ▶ Permanent Magnet Synchronous Motors
- ▶ Three-phase synchronous motors, based on IEC standard
- ▶ The economical alternative to IE3 asynchronous motors
- ▶ Highest efficiency: IE4=Short return of investment time
- ▶ Already compatible to future efficiency standards (IE4)
- ▶ Wide power range, from 0.4 to 30 kW, 230 / 400V, 1500/3000 rpm with Flange B3, B5, B14

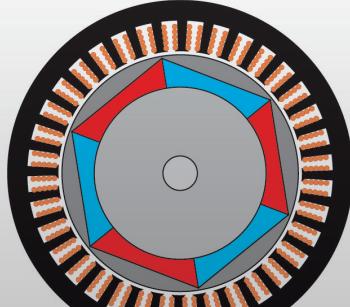
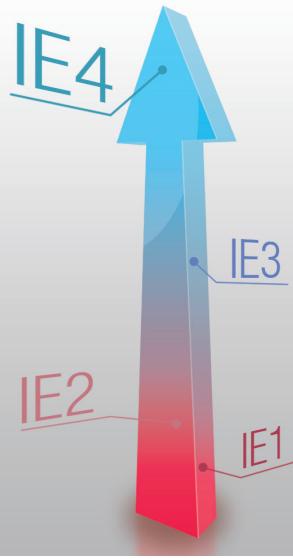
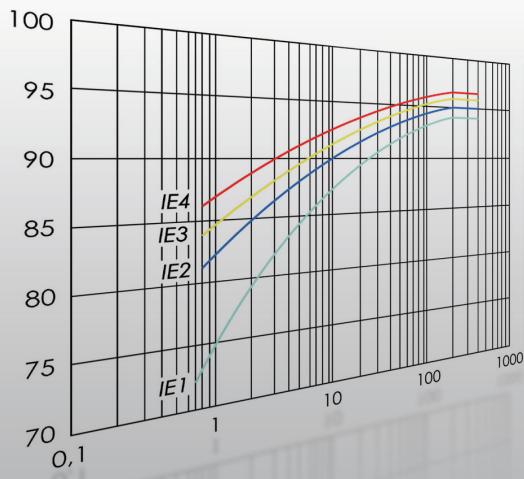
## EVPM - Technical product data - B3

Motor Flange B3	Rated Voltage V	3~Mot	Pole	Rated Power kW	Rated Speed rpm	Efficiency	Rated Current A	Rated Torque Nm	Peak Torque Nm	Siz	BEMF V/krpm	Connec- tion	Duty type	Weight Kg	Fre- quency Hz
			Pole	kW	%	A	Nm								
EVMP-401IN2Y063D15A03	230	3~Mot	4	i0,4	1500	86,9	2,4	2,54	5,08	63	120	Y	S1	3,5	50
EVMP-751IN2Y071D15A03	230	3~Mot	4	0,75	1500	85,6	3,4	4,8	9,6	71	120	Y	S1	5,4	50
EVMP-112IN2Y071D15A03	230	3~Mot	4	1,1	1500	87,4	4,9	7	14	71	120	Y	S1	9	50
EVMP-152IN2Y090D15A03	230	3~Mot	4	1,5	1500	88,1	6,6	9,6	19,2	90L	120	Y	S1	14	50
EVMP-222IN2Y090D15A03	230	3~Mot	4	2,2	1500	89,7	9,4	14	28	90L	120	Y	S1	17	50
EVMP-751IN4Y071D15A03	400	3~Mot	4	0,75	1500	85,6	1,7	4,8	9,6	71	220	Y	S1	5,4	50
EVMP-112IN4Y071D15A03	400	3~Mot	4	1,1	1500	87,4	2,45	7	14	71	220	Y	S1	9	50
EVMP-152IN4Y090D15A03	400	3~Mot	4	1,5	1500	88,1	3,3	9,6	19,2	90L	220	Y	S1	14	50
EVMP-222IN4Y090D15A03	400	3~Mot	4	2,2	1500	89,7	4,7	14	28	90L	220	Y	S1	17	50
EVMP-302IN4Y090D15A03	400	3~Mot	4	3	1500	90,3	6,4	19,1	38,2	90L	220	Y	S1	21	50
EVMP-402IN4Y112D15A03	400	3~Mot	4	4	1500	90,9	8,6	25,5	51	112M	220	Y	S1	24	50
EVMP-552IN4Y112D15A03	400	3~Mot	4	5,5	1500	92,1	11,6	35	70	112M	220	Y	S1	30	50
EVMP-752IN4Y112D15A03	400	3~Mot	4	7,5	1500	92,6	16	47,8	95,6	112M	220	Y	S1	36	50
EVMP-113IN4Y132D15A03	400	3~Mot	4	11	1500	93,6	22	70	140	132M	220	Y	S1	57	50
EVMP-153IN4Y132D15A03	400	3~Mot	4	15	1500	94	30,9	95,5	191	132M	220	Y	S1	72	50
EVMP-183IN4Y160D15A03	400	3~Mot	4	18,5	1500	94,3	37,8	117,8	235,6	160L	220	Y	S1	97	50
EVMP-223IN4Y160D15A03	400	3~Mot	4	22	1500	94,7	45	140	280	160L	220	Y	S1	106	50
EVMP-303IN4Y160D15A03	400	3~Mot	4	30	1500	95	61	191	382	160L	220	Y	S1	135	50
EVMP-401IN2Y063D30A03	230	3~Mot	4	0,4	3000	86,9	2,4	1,27	2,54	63	67	Y	S1	3	100
EVMP-751IN2Y071D30A03	230	3~Mot	4	0,75	3000	88,6	3,4	2,4	4,8	71	67	Y	S1	5,4	100
EVMP-112IN2Y071D30A03	230	3~Mot	4	1,1	3000	89,8	4,9	3,5	7	71	67	Y	S1	7,5	100
EVMP-152IN2Y090D30A03	230	3~Mot	4	1,5	3000	90,9	6,6	4,8	9,6	90S	67	Y	S1	10	100
EVMP-222IN2Y090D30A03	230	3~Mot	4	2,2	3000	91,8	9,4	7	14	90S	67	Y	S1	15	100
EVMP-751IN4Y071D30A03	400	3~Mot	4	0,75	3000	88,6	1,7	2,4	4,8	71	120	Y	S1	5,4	100
EVMP-112IN4Y071D30A03	400	3~Mot	4	1,1	3000	89,8	2,45	3,5	7	71	120	Y	S1	7,5	100
EVMP-152IN4Y090D30A03	400	3~Mot	4	1,5	3000	90,9	3,3	4,8	9,6	90S	120	Y	S1	10	100
EVMP-222IN4Y090D30A03	400	3~Mot	4	2,2	3000	91,8	4,7	7	14	90S	120	Y	S1	15	100
EVMP-302IN4Y090D30A03	400	3~Mot	4	3	3000	92,6	6,4	9,55	19,1	90S	120	Y	S1	16	100
EVMP-402IN4Y112D30A03	400	3~Mot	4	4	3000	93,3	8,6	12,8	25,6	112M	120	Y	S1	20	100
EVMP-552IN4Y112D30A03	400	3~Mot	4	5,5	3000	94	11,6	17,5	35	112M	120	Y	S1	28	100
EVMP-752IN4Y112D30A03	400	3~Mot	4	7,5	3000	94,5	16	24	48	112M	120	Y	S1	30	100
EVMP-113IN4Y132D30A03	400	3~Mot	4	11	3000	95	22	35	70	132S	120	Y	S1	45	100
EVMP-153IN4Y132D30A03	400	3~Mot	4	15	3000	95,3	30,9	47,75	95,5	132S	120	Y	S1	60	100
EVMP-183IN4Y160D30A03	400	3~Mot	4	18,5	3000	95,6	37,8	59	118	160M	120	Y	S1	80	100
EVMP-223IN4Y160D30A03	400	3~Mot	4	22	3000	95,9	45	70	140	160M	120	Y	S1	86	100
EVMP-303IN4Y160D30A03	400	3~Mot	4	30	3000	96,1	61	95,5	191	160M	120	Y	S1	95	100

- ▶ **More efficient:** Adopts high performance rare-earth permanent magnet materials, use special stator slots shape and rotor structure, motor efficiency can reach standard IE4.
- ▶ **Smaller Size:** Smaller 1~2 size than induction motor in same power, compact volume.
- ▶ **More reliability:** Current decrease, temperature rise lower, longer life.
- ▶ **Higher performance:** Smaller rotary inertia, bigger starting torque, wider running frequency.
- ▶ **Easy control:** Frequency conversion vector control mode, high control precision.
- ▶ **Better applicability:** Can be used in mal-condition, even in the occasion of long-time low-speed running and frequent starting.

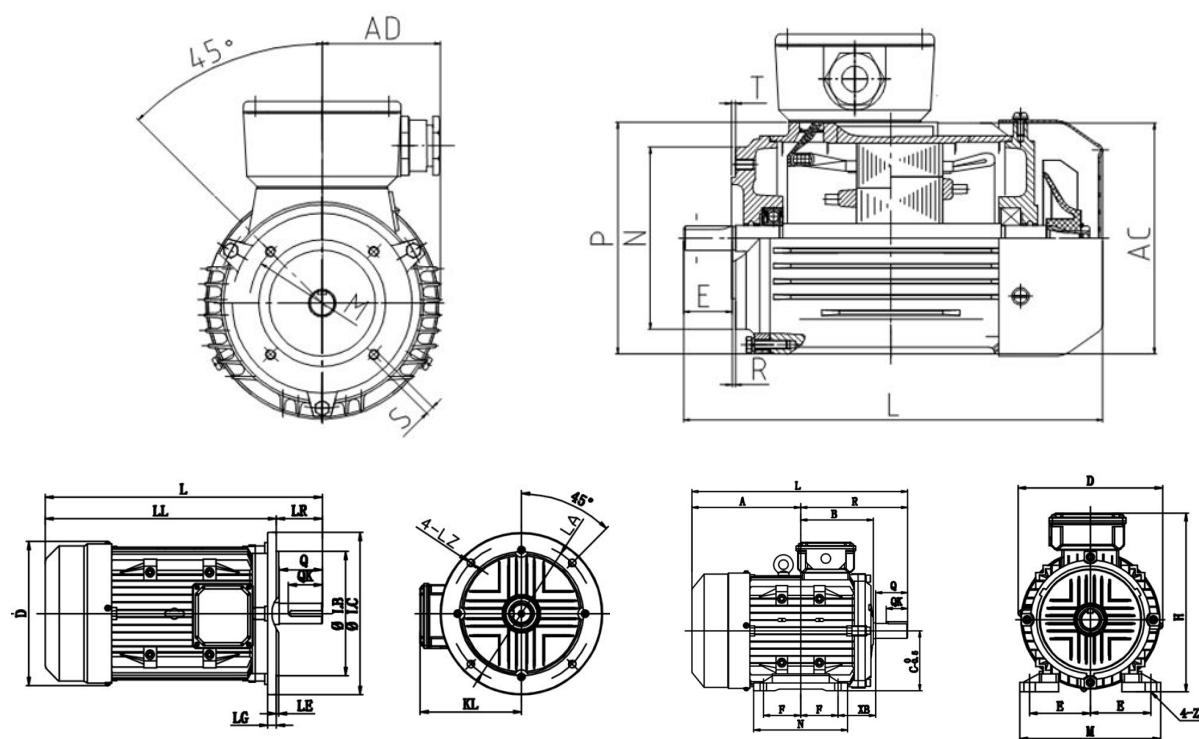
## EVPM - Technical product data - B5

Motor Flange B5	Rated Voltage	3~Mot	Pole	Rated Power	Rated Speed	Efficiency	Rated Current	Rated Torque	Peak Torque	Size	BEMF V/krpm	Connection	Duty type	Weight Kg	Frequency Hz
			Pole	kW	rpm	%	A	Nm	Nm						
EVMP-401IN2Y063D15A05	230	3~Mot	4	0,4	1500	86,9	2,4	2,54	5,08	63	120	Y	S1	3,5	50
EVMP-751IN2Y071D15A05	230	3~Mot	4	0,75	1500	85,6	3,4	4,8	9,6	71	120	Y	S1	5,4	50
EVMP-112IN2Y071D15A05	230	3~Mot	4	1,1	1500	87,4	4,9	7	14	71	120	Y	S1	9	50
EVMP-152IN2Y090D15A05	230	3~Mot	4	1,5	1500	88,1	6,6	9,6	19,2	90L	120	Y	S1	14	50
EVMP-222IN2Y090D15A05	230	3~Mot	4	2,2	1500	89,7	9,4	14	28	90L	120	Y	S1	17	50
EVMP-751IN4Y071D15A05	400	3~Mot	4	0,75	1500	85,6	1,7	4,8	9,6	71	220	Y	S1	5,4	50
EVMP-112IN4Y071D15A05	400	3~Mot	4	1,1	1500	87,4	2,45	7	14	71	220	Y	S1	9	50
EVMP-152IN4Y090D15A05	400	3~Mot	4	1,5	1500	88,1	3,3	9,6	19,2	90L	220	Y	S1	14	50
EVMP-222IN4Y090D15A05	400	3~Mot	4	2,2	1500	89,7	4,7	14	28	90L	220	Y	S1	17	50
EVMP-302IN4Y090D15A05	400	3~Mot	4	3	1500	90,3	6,4	19,1	38,2	90L	220	Y	S1	21	50
EVMP-402IN4Y112D15A05	400	3~Mot	4	4	1500	90,9	8,6	25,5	51	112M	220	Y	S1	24	50
EVMP-552IN4Y112D15A05	400	3~Mot	4	5,5	1500	92,1	11,6	35	70	112M	220	Y	S1	30	50
EVMP-752IN4Y112D15A05	400	3~Mot	4	7,5	1500	92,6	16	47,8	95,6	112M	220	Y	S1	36	50
EVMP-113IN4Y132D15A05	400	3~Mot	4	11	1500	93,6	22	70	140	132M	220	Y	S1	57	50
EVMP-153IN4Y132D15A05	400	3~Mot	4	15	1500	94	30,9	95,5	191	132M	220	Y	S1	72	50
EVMP-183IN4Y160D15A05	400	3~Mot	4	18,5	1500	94,3	37,8	117,8	235,6	160L	220	Y	S1	97	50
EVMP-223IN4Y160D15A05	400	3~Mot	4	22	1500	94,7	45	140	280	160L	220	Y	S1	106	50
EVMP-303IN4Y160D15A05	400	3~Mot	4	30	1500	95	61	191	382	160L	220	Y	S1	135	50
EVMP-401IN2Y063D30A05	230	3~Mot	4	0,4	3000	86,9	2,4	1,27	2,54	63	67	Y	S1	3	100
EVMP-751IN2Y071D30A05	230	3~Mot	4	0,75	3000	88,6	3,4	2,4	4,8	71	67	Y	S1	5,4	100
EVMP-112IN2Y071D30A05	230	3~Mot	4	1,1	3000	89,8	4,9	3,5	7	71	67	Y	S1	7,5	100
EVMP-152IN2Y090D30A05	230	3~Mot	4	1,5	3000	90,9	6,6	4,8	9,6	90S	67	Y	S1	10	100
EVMP-222IN2Y090D30A05	230	3~Mot	4	2,2	3000	91,8	9,4	7	14	90S	67	Y	S1	15	100
EVMP-751IN4Y071D30A05	400	3~Mot	4	0,75	3000	88,6	1,7	2,4	4,8	71	120	Y	S1	5,4	100
EVMP-112IN4Y071D30A05	400	3~Mot	4	1,1	3000	89,8	2,45	3,5	7	71	120	Y	S1	7,5	100
EVMP-152IN4Y090D30A05	400	3~Mot	4	1,5	3000	90,9	3,3	4,8	9,6	90S	120	Y	S1	10	100
EVMP-222IN4Y090D30A05	400	3~Mot	4	2,2	3000	91,8	4,7	7	14	90S	120	Y	S1	15	100
EVMP-302IN4Y090D30A05	400	3~Mot	4	3	3000	92,6	6,4	9,55	19,1	90S	120	Y	S1	16	100
EVMP-402IN4Y112D30A05	400	3~Mot	4	4	3000	93,3	8,6	12,8	25,6	112M	120	Y	S1	20	100
EVMP-552IN4Y112D30A05	400	3~Mot	4	5,5	3000	94	11,6	17,5	35	112M	120	Y	S1	28	100
EVMP-752IN4Y112D30A05	400	3~Mot	4	7,5	3000	94,5	16	24	48	112M	120	Y	S1	30	100
EVMP-113IN4Y132D30A05	400	3~Mot	4	11	3000	95	22	35	70	132S	120	Y	S1	45	100
EVMP-153IN4Y132D30A05	400	3~Mot	4	15	3000	95,3	30,9	47,75	95,5	132S	120	Y	S1	60	100
EVMP-183IN4Y160D30A05	400	3~Mot	4	18,5	3000	95,6	37,8	59	118	160M	120	Y	S1	80	100
EVMP-223IN4Y160D30A05	400	3~Mot	4	22	3000	95,9	45	70	140	160M	120	Y	S1	86	100
EVMP-303IN4Y160D30A05	400	3~Mot	4	30	3000	96,1	61	95,5	191	160M	120	Y	S1	95	100



## EVPM - Technical product data - B14

Motor Flange B14	Rated Voltage	3-Mot	Pole	Rated Power	Rated Speed	Efficiency	Rated Current	Rated Torque	Peak Torque	Size	BEMF V/krpm	Connec-	Duty type	Weight Kg	Fre- quency Hz
			V	Pole	kW	rpm	%	A	Nm						
EVMP-401IN2Y063D15A14	230	3~Mot	4	0,4	1500	86,9	2,4	2,54	5,08	63	120	Y	S1	3,5	50
EVMP-751IN2Y071D15A14	230	3~Mot	4	0,75	1500	85,6	3,4	4,8	9,6	71	120	Y	S1	5,4	50
EVMP-112IN2Y071D15A14	230	3~Mot	4	1,1	1500	87,4	4,9	7	14	71	120	Y	S1	9	50
EVMP-152IN2Y090D15A14	230	3~Mot	4	1,5	1500	88,1	6,6	9,6	19,2	90L	120	Y	S1	14	50
EVMP-222IN2Y090D15A14	230	3~Mot	4	2,2	1500	89,7	9,4	14	28	90L	120	Y	S1	17	50
EVMP-751IN4Y071D15A14	400	3~Mot	4	0,75	1500	85,6	1,7	4,8	9,6	71	220	Y	S1	5,4	50
EVMP-112IN4Y071D15A14	400	3~Mot	4	1,1	1500	87,4	2,45	7	14	71	220	Y	S1	9	50
EVMP-152IN4Y090D15A14	400	3~Mot	4	1,5	1500	88,1	3,3	9,6	19,2	90L	220	Y	S1	14	50
EVMP-222IN4Y090D15A14	400	3~Mot	4	2,2	1500	89,7	4,7	14	28	90L	220	Y	S1	17	50
EVMP-302IN4Y090D15A14	400	3~Mot	4	3	1500	90,3	6,4	19,1	38,2	90L	220	Y	S1	21	50
EVMP-402IN4Y112D15A14	400	3~Mot	4	4	1500	90,9	8,6	25,5	51	112M	220	Y	S1	24	50
EVMP-552IN4Y112D15A14	400	3~Mot	4	5,5	1500	92,1	11,6	35	70	112M	220	Y	S1	30	50
EVMP-752IN4Y112D15A14	400	3~Mot	4	7,5	1500	92,6	16	47,8	95,6	112M	220	Y	S1	36	50
EVMP-401IN2Y063D30A14	230	3~Mot	4	0,4	3000	86,9	2,4	1,27	2,54	63	67	Y	S1	3	100
EVMP-751IN2Y071D30A14	230	3~Mot	4	0,75	3000	88,6	3,4	2,4	4,8	71	67	Y	S1	5,4	100
EVMP-112IN2Y071D30A14	230	3~Mot	4	1,1	3000	89,8	4,9	3,5	7	71	67	Y	S1	7,5	100
EVMP-152IN2Y090D30A14	230	3~Mot	4	1,5	3000	90,9	6,6	4,8	9,6	90S	67	Y	S1	10	100
EVMP-222IN2Y090D30A14	230	3~Mot	4	2,2	3000	91,8	9,4	7	14	90S	67	Y	S1	15	100
EVMP-751IN4Y071D30A14	400	3~Mot	4	0,75	3000	88,6	1,7	2,4	4,8	71	120	Y	S1	5,4	100
EVMP-112IN4Y071D30A14	400	3~Mot	4	1,1	3000	89,8	2,45	3,5	7	71	120	Y	S1	7,5	100
EVMP-152IN4Y090D30A14	400	3~Mot	4	1,5	3000	90,9	3,3	4,8	9,6	90S	120	Y	S1	10	100
EVMP-222IN4Y090D30A14	400	3~Mot	4	2,2	3000	91,8	4,7	7	14	90S	120	Y	S1	15	100
EVMP-302IN4Y090D30A14	400	3~Mot	4	3	3000	92,6	6,4	9,55	19,1	90S	120	Y	S1	16	100
EVMP-402IN4Y112D30A14	400	3~Mot	4	4	3000	93,3	8,6	12,8	25,6	112M	120	Y	S1	20	100
EVMP-552IN4Y112D30A14	400	3~Mot	4	5,5	3000	94	11,6	17,5	35	112M	120	Y	S1	28	100
EVMP-752IN4Y112D30A14	400	3~Mot	4	7,5	3000	94,5	16	24	48	112M	120	Y	S1	30	100



# APPLICATION

WATER SUPPLY - BOOSTER STATION

ESCALATOR / ELEVATOR CONTROL

MIXER - BIO-ENERGY PLANTS

WASTEWATER TREATMENT

AIR CONDITIONING - HEATING

MATERIAL HANDLING - CONVEYORS -PACKAGING MACHINES

BUILDING AUTOMATION

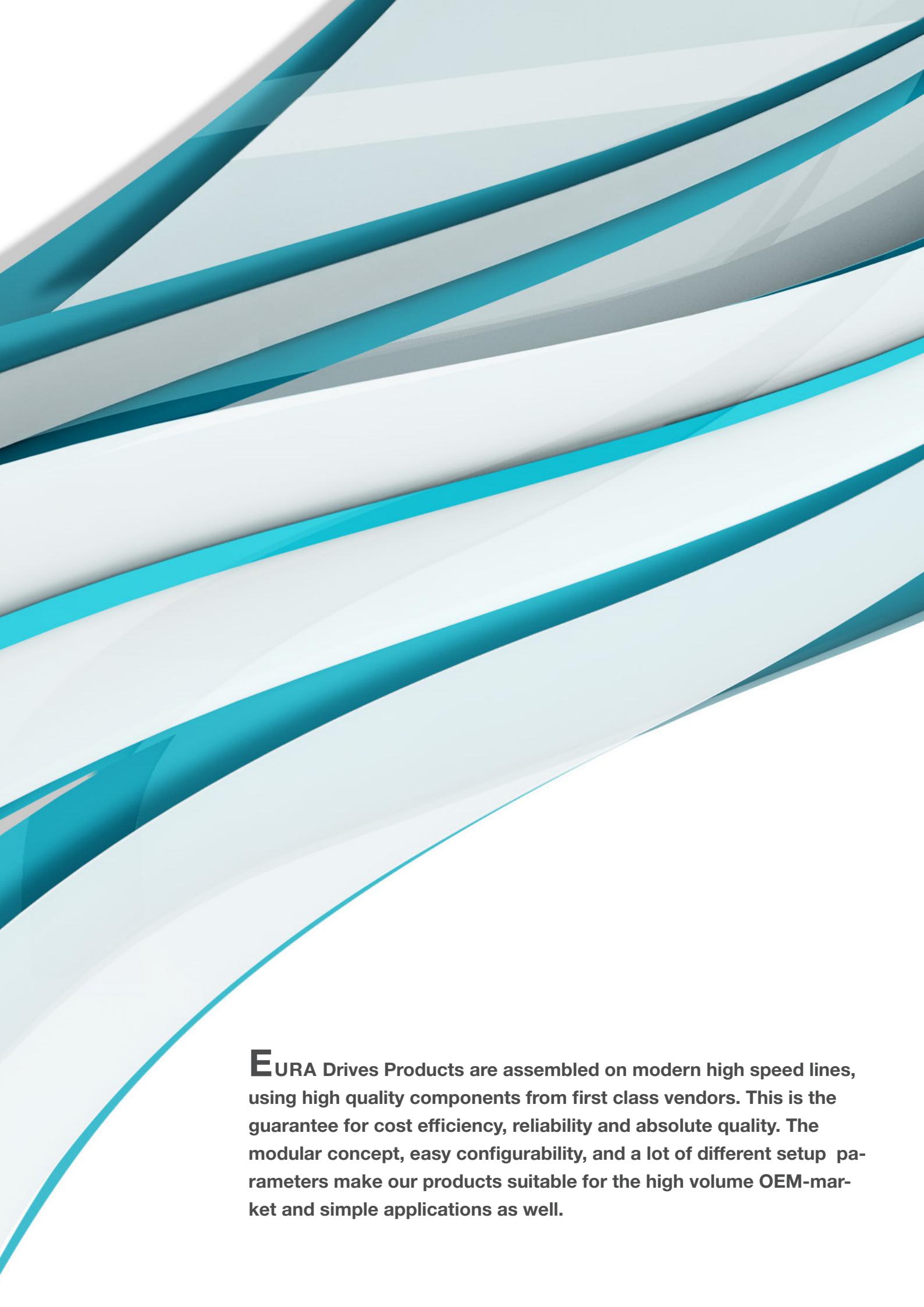
TEXTILE MACHINERY - FIBER PROCESSING

PROCESS COOLING / REFRIGERATION

COMPRESSORS

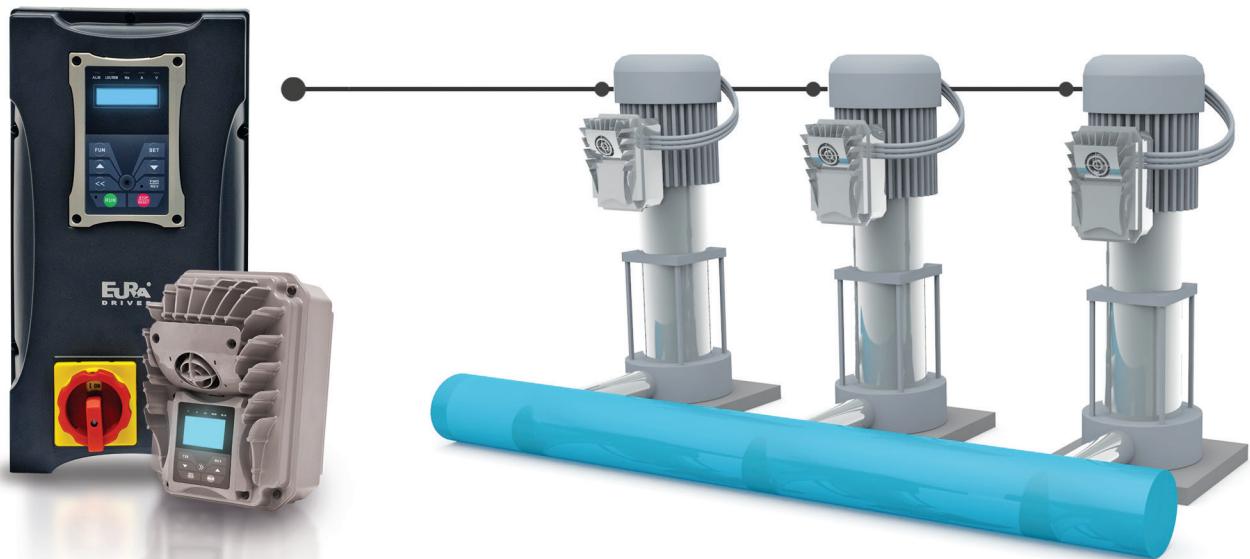
VENTILATION - BLOWER

WASHING - DYING MACHINES



**E**URA Drives Products are assembled on modern high speed lines, using high quality components from first class vendors. This is the guarantee for cost efficiency, reliability and absolute quality. The modular concept, easy configurability, and a lot of different setup parameters make our products suitable for the high volume OEM-market and simple applications as well.

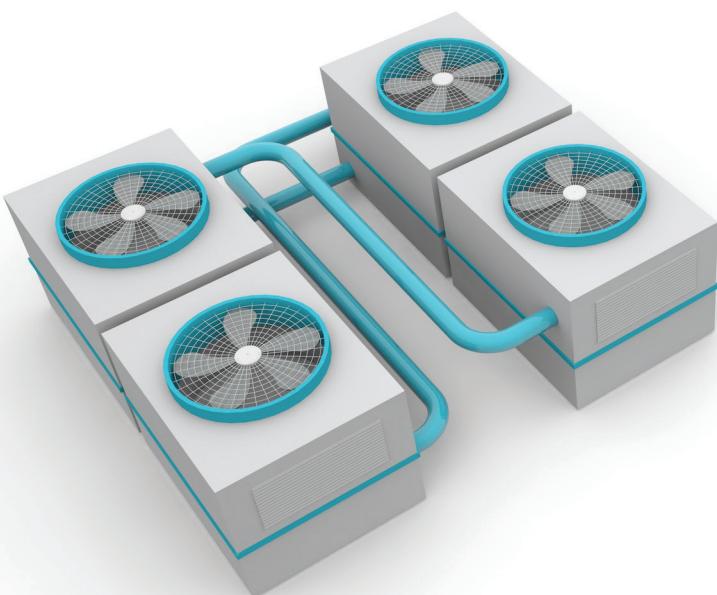
## WATER SUPPLY - BOOSTER STATION



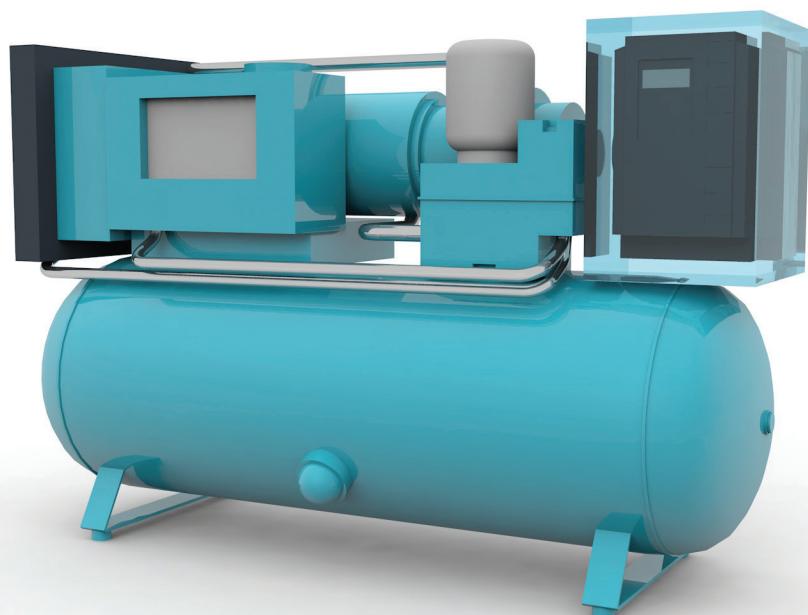
## ESCALATOR / ELEVATOR CONTROL



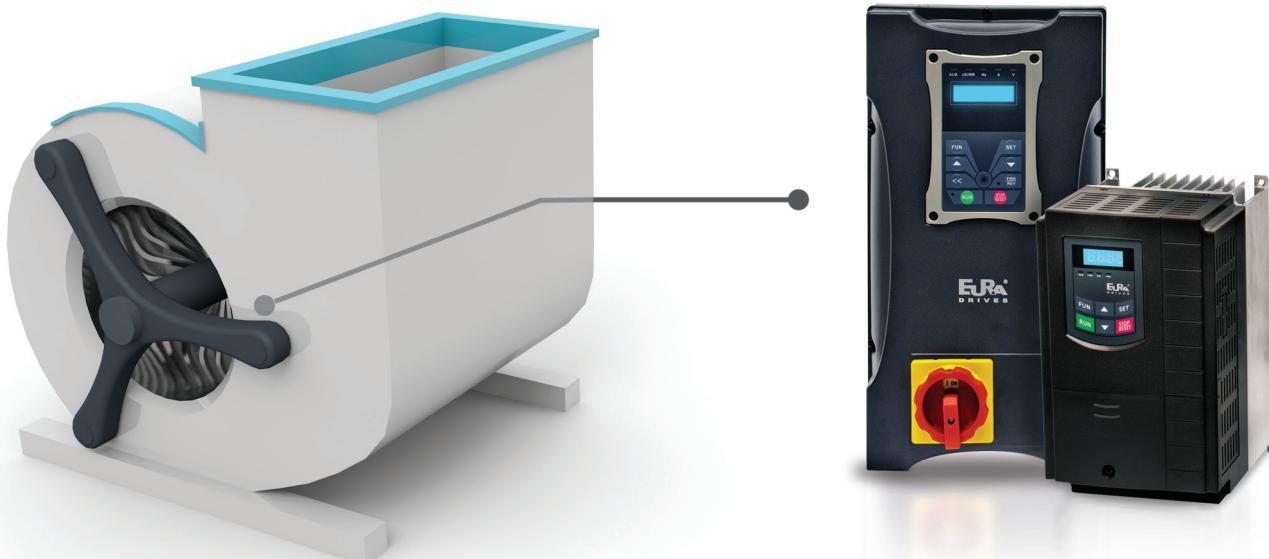
## PROCESS COOLING / REFRIGERATION



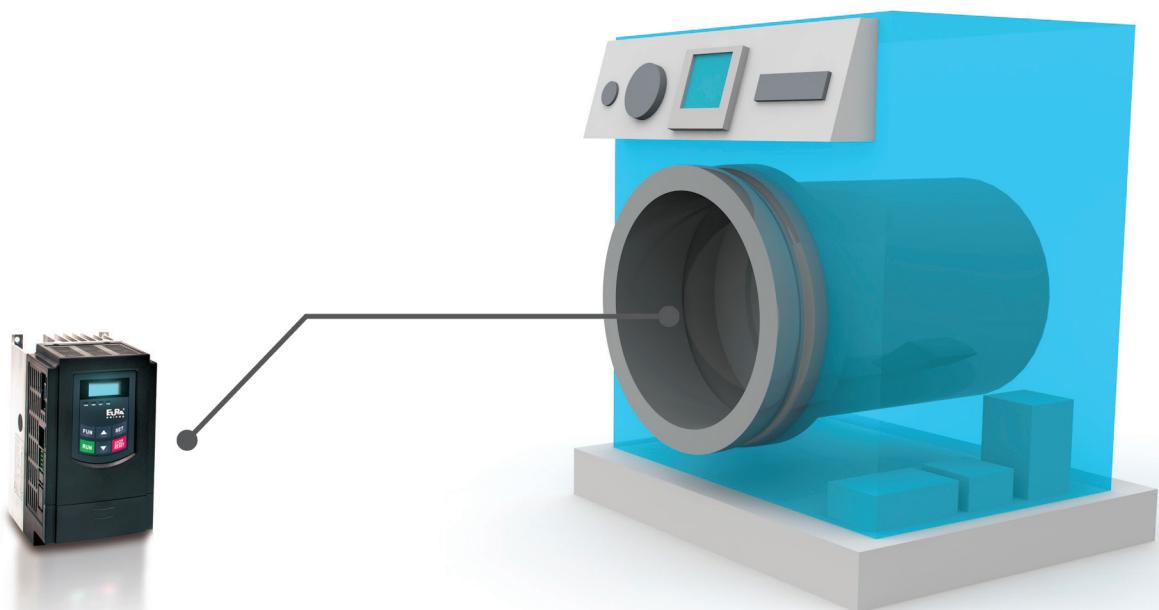
## COMPRESSORS



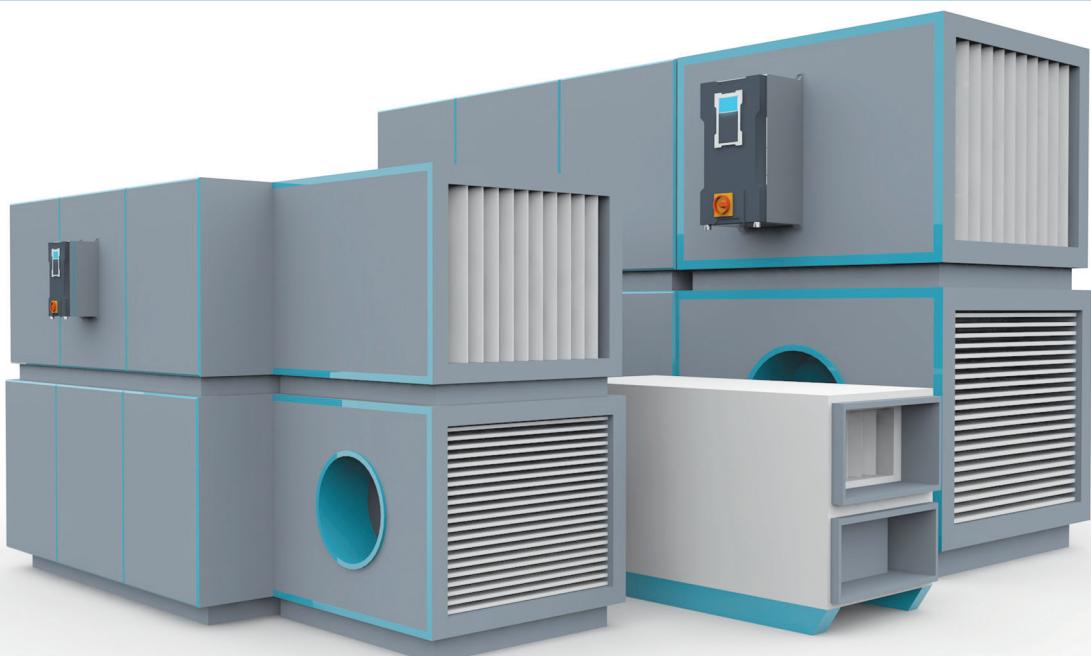
## VENTILATION - BLOWER



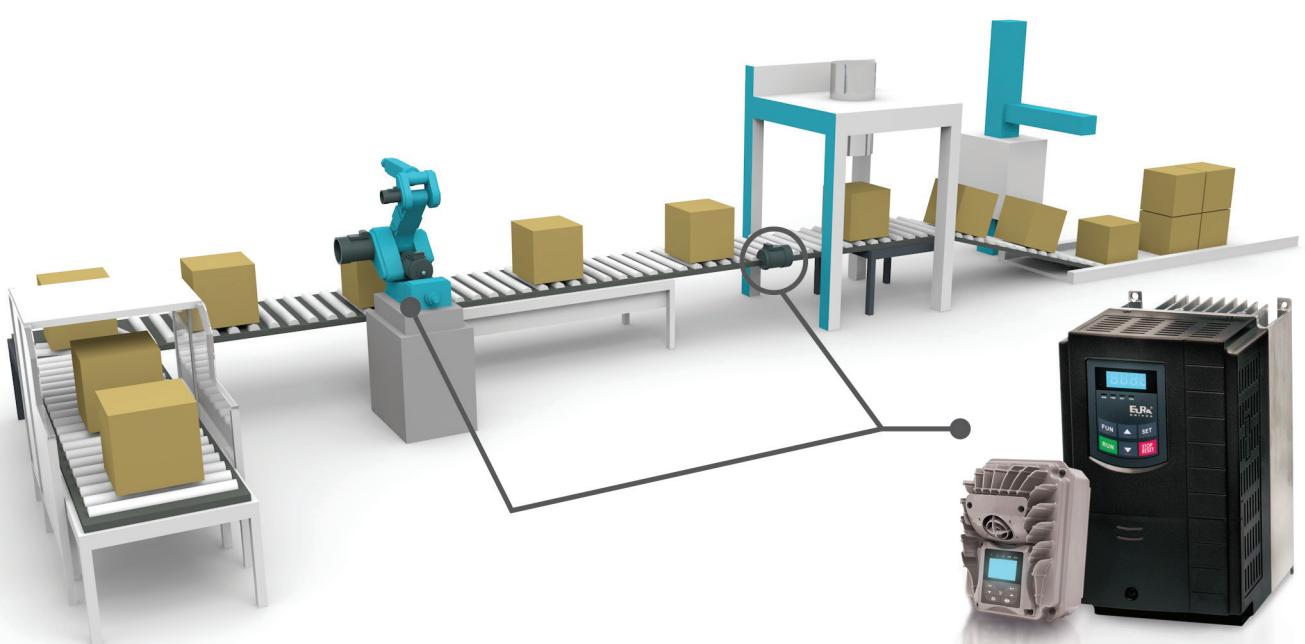
## WASHING - DYING MACHINES



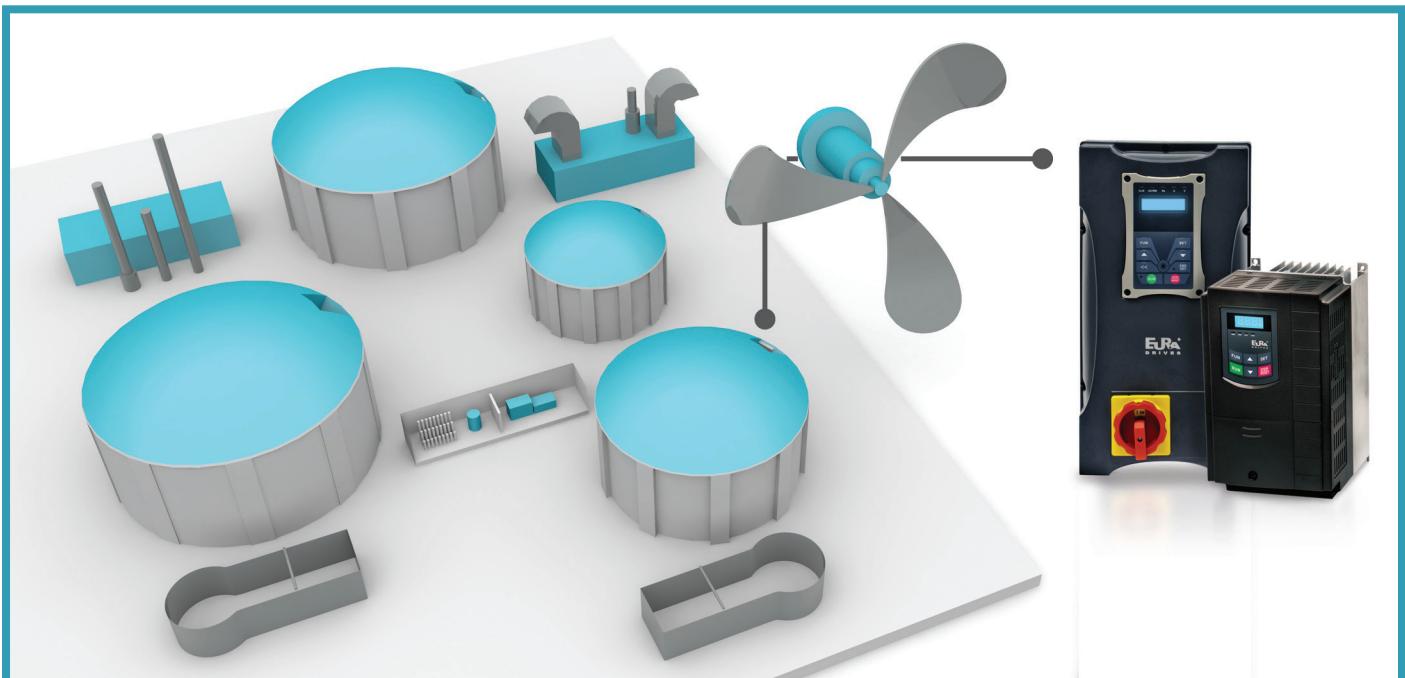
## AIR CONDITIONING - HEATING



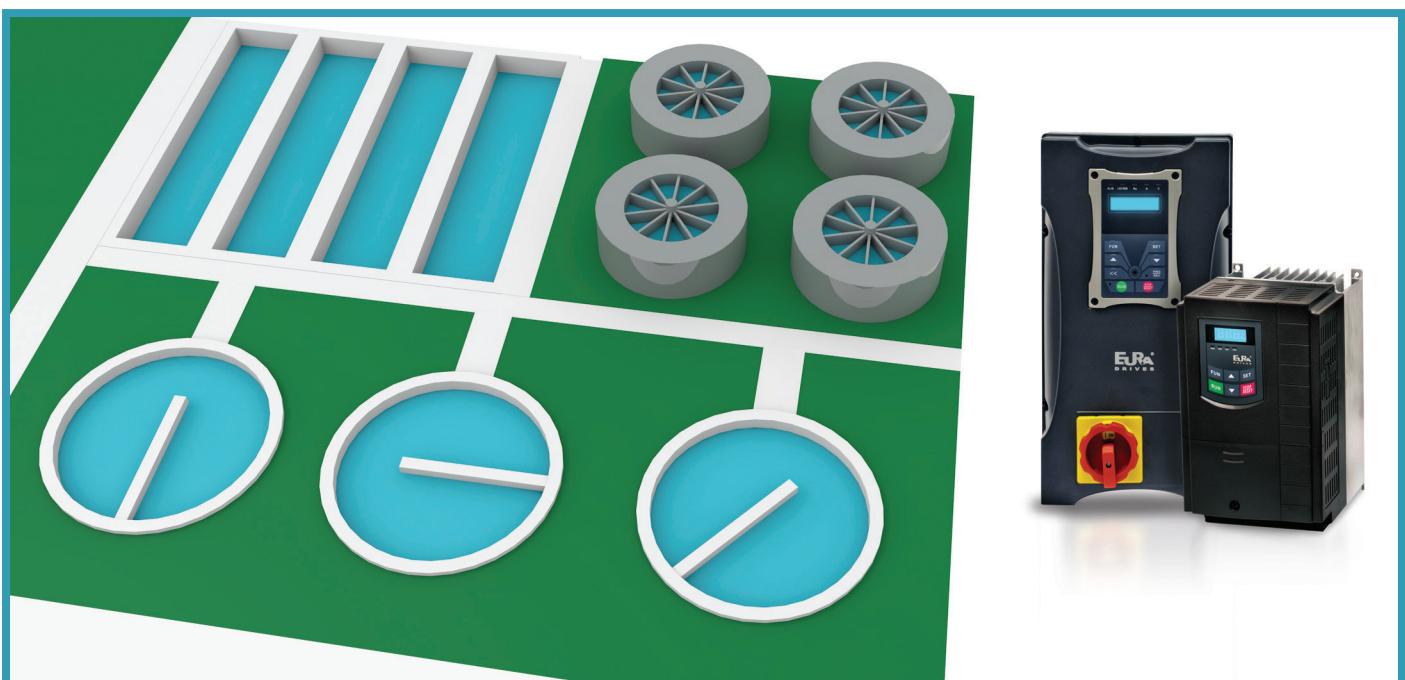
## MATERIAL HANDLING - CONVEYORS - PACKAGING MACHINES



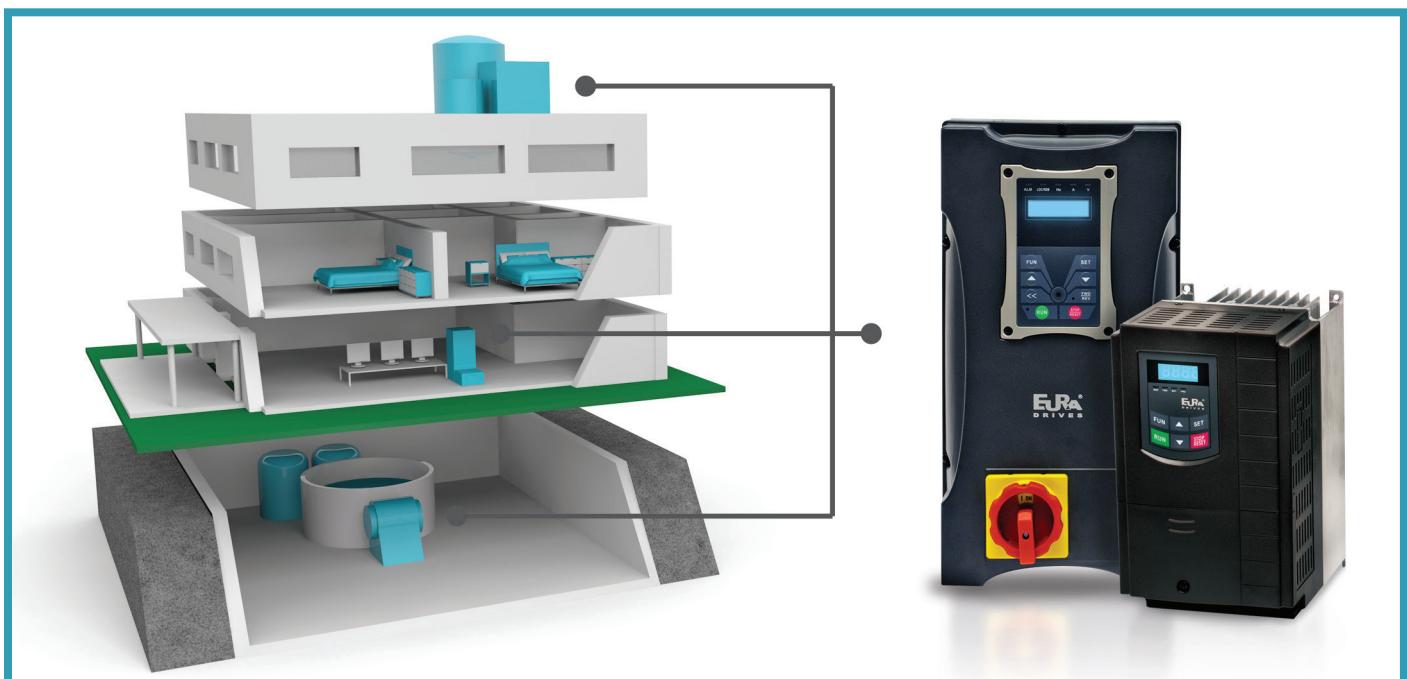
## MIXER - BIO-ENERGY PLANTS



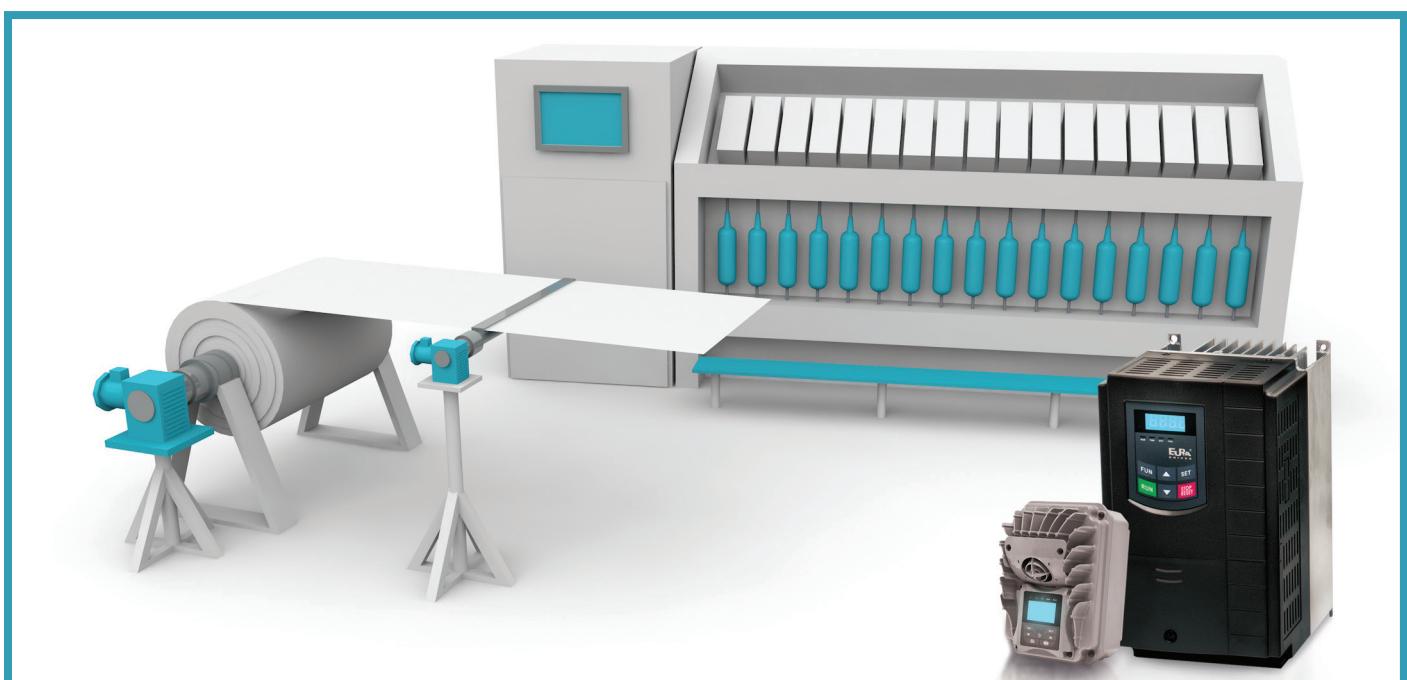
## WASTEWATER TREATMENT



## BUILDING AUTOMATION



## TEXTILE MACHINERY - FIBER PROCESSING





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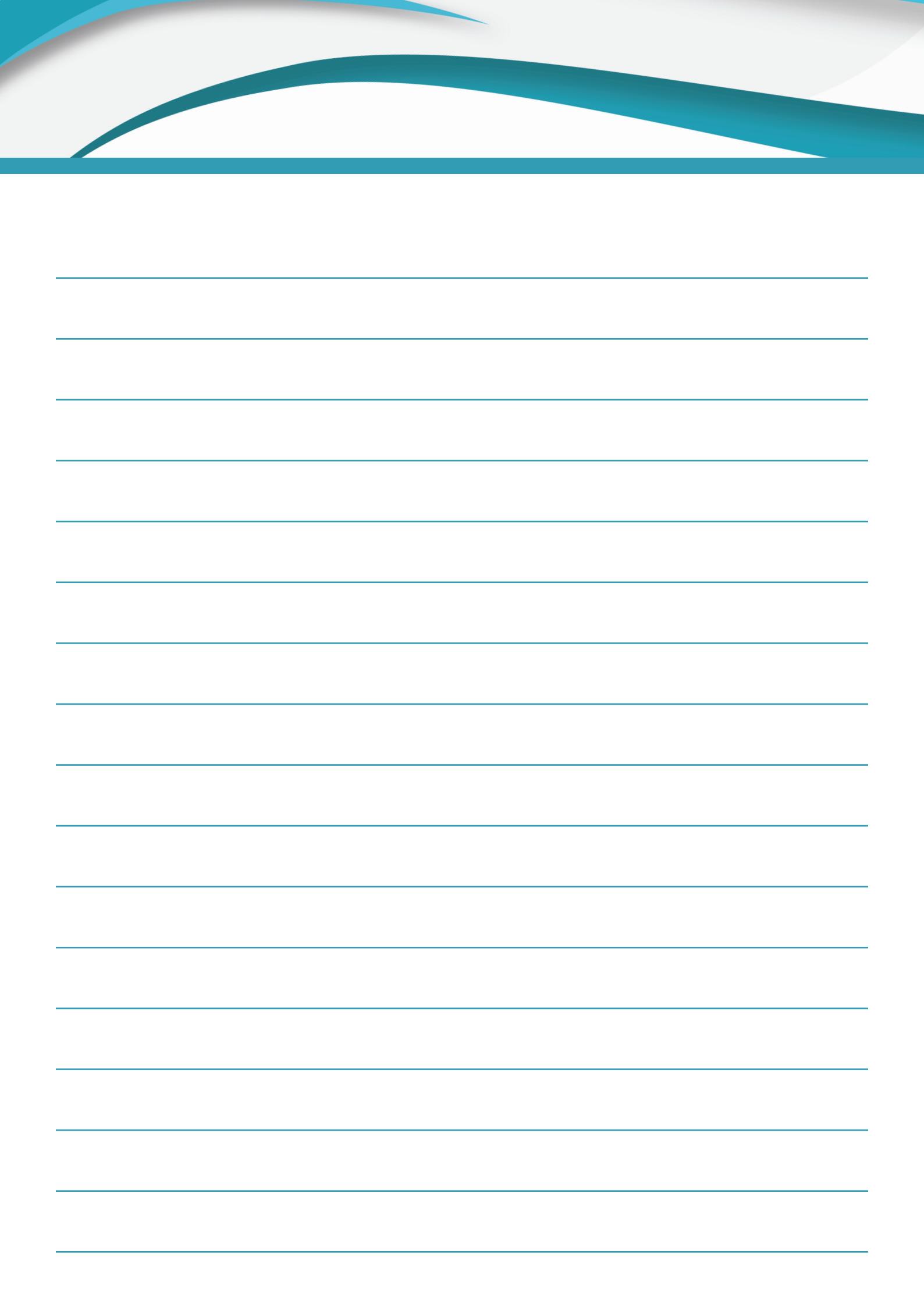
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