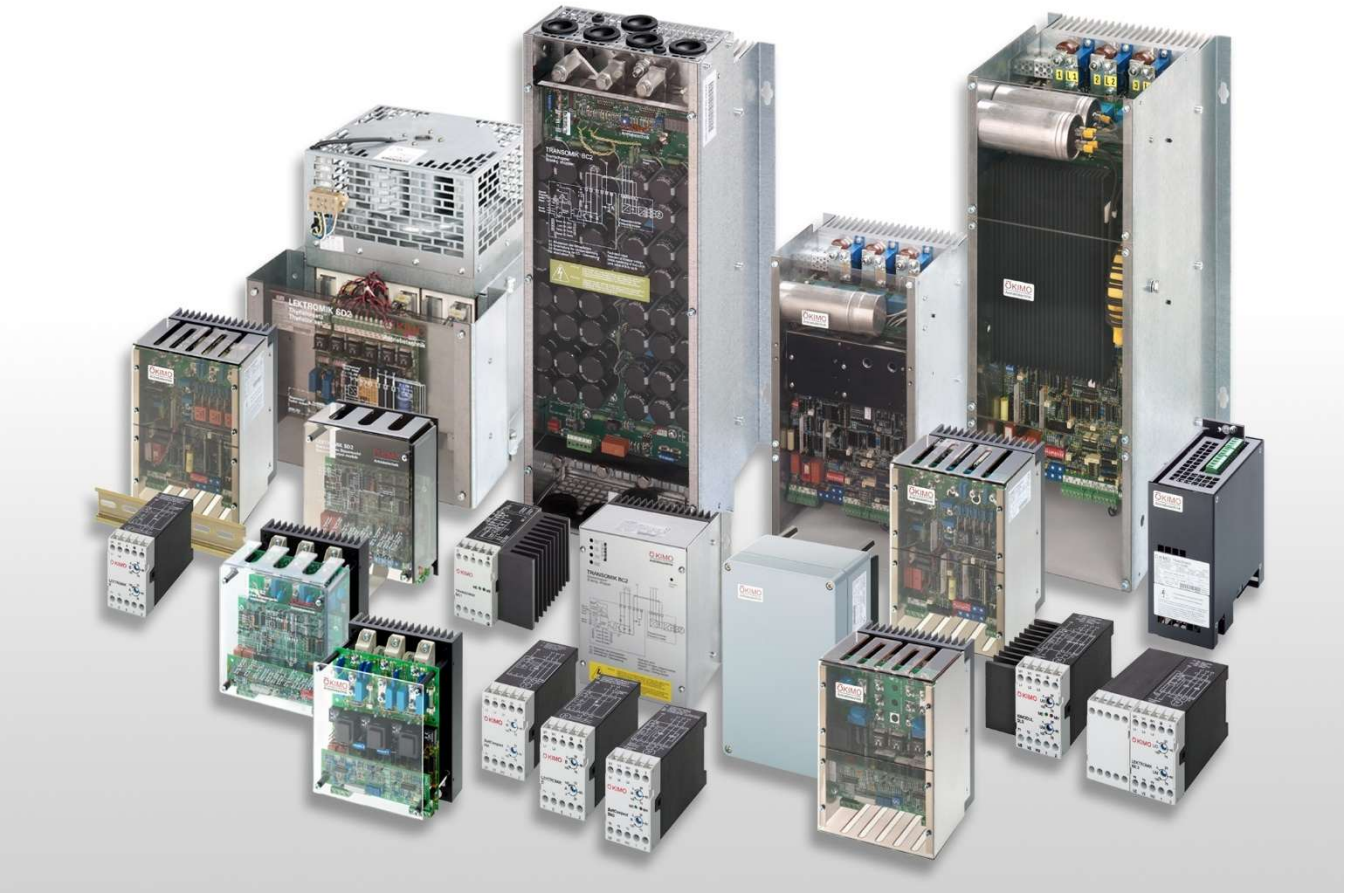
Product overview

KIMO® Drive Technology

Optimum drive solutions



from 0.25 up to 2000 kW and from 110 up to 690 V

KIMO®
Drive Technology

Soft start and soft stop

SoftCompact ® AM, SM

Snatch-free modules (AM) and soft starters (SM) 1.1 ... 7.5 kW

Features
- 1-/ 2-phase control
- 3AC 230 V, 3AC 400 V, 1/N AC 230 V
- Starting torque, ramp-up time and ramp-down time adjustable
- Soft stop (SM2 only)
- Mounting on 35 mm DIN rail
- Side-by-side mounting
- No control voltage required
- Easily retrofitted
- Internal bypass relay
- Can be combined with electronic d.c. injection brakes

Applications
- Conveyor belts and transport systems
- Packing equipment
- Pumps
- Refrigeration compressors
- Heat pumps
- Long-travel drives for cranes
- General soft starting applications in machinery and plant construction

LEKTROMIK ® S2, SD2

Soft start and soft stop 4 ... 2000 kW

Features
- 3-phase control
- Wide voltage range 3AC 110...500 V or 3AC 220...690 V
- Ramp-up time, ramp-down time and starting torque adjustable
- Ramp-up times up to 100 s possible
- Can be combined with electronic d.c. injection brakes
- Current limit and upgrading with special functions
- Control of external bridging contactor
- Can be used as voltage controller
- S2: Option I2 integrated
- SD2: "Delta" connection (6 motor cables)

Applications
- Pumps
- Fans and compressors
- Refrigeration compressors
- Conveyor belts
- Grinding machines
- Saws
- High speed and high load belts
- Drives with pole-change motors
- Machines with gearbox, belt or chain drives
- Centrifuges

Brake units

LEKTROMIK ® B1

Brake units 2.2 ... 7.5 kW

Features
- AC 230 V, AC 400 V, AC 480V
- Braking torque and braking time-out separately adjustable
- Mounting on 35 mm DIN rails
- Side-by-side mounting
- Easily retrofitted
- Can be used without braking contactors
- Suitable as a combined soft start and brake using the soft start *SoftCompact*

Applications
- Woodworking machines
- Grinding machines
- Conveyor belts with long running down times
- Vibration sources
- Centrifuges
- Test rigs

LEKTROMIK® B4

Brake units 15 ... 200 kW

Features
- AC 220 ... 500 V
- Braking torque and braking time-out separately adjustable
- Detection of zero-speed
- Operation without braking contactor possible
- Suitable as a combined soft start and brake using the electronic soft start LEKTROMIK S2 / SD2
- Limiting of maximum braking current

Applications
- Woodworking machines
- Vibration motors
- Roller-table drives in steel plants
- Machines with high inertia, e.g. mills, compactors, centrifuges

KIMO®
Antriebstechnik

Soft start, soft stop and brake

Soft start and brake unit 15 kW

LEKTROMIK® DS1

Features
- 3AC 200 - 480 V, 15 kW (in delta-connection up to 30 kW)
- Microprocessor controlled
- Suitable for IE1-, IE2- und IE3- motors
- Fully controlled soft start
- Fully controlled braking
- Integrated zero speed detection
- Integrated bypass relays

Applications
- Woodworking machinery (saws, planing benches, grinding machines)
- Machines with gear boxes, belt and chain drives
- Conveyor belts, fans, compressors and pumps
- Braking of machines with long run out time

Voltage controllers

Single-phase voltage controllers 1.5 ... 18 A

LEKTROMIK® K3

Features
- AC 230 V
- Single-phase control Mounting on 35 mm DIN rail
- Compact unit
- Minimum and maximum voltage separately adjustable

Applications
- Electrical heating equipment
- Fan control
- Applications with single-phase capacitor motors
- Lighting control

Three-phase voltage controllers 6 A

KIMODUL® DLS

Features
- 3AC 400 V
- 3-phase control
- Mounting on 35 mm DIN rail
- Minimum and maximum voltage separately adjustable
- EMC filter for use in residential areas available

Applications
- Electrical heating equipment
- Fan control
- Lighting control
- Torque controller for torque motors e.g. with winding drives
- Motors with external rotor

Braking choppers

Braking choppers for external braking resistors 11 … 22 kW

TRANSOMIK® BC1

Features
- Operation with frequency inverters for supply voltages up to 3AC 460 V
- Brake voltage threshold 670 / 770 V
- Retrofit to existing inverters without braking chopper

Applications
- Drives with large inertia
- Drives with requirement for rapid braking
- Drives for transport, long travel and hoisting applications

Braking choppers for external braking resistors 40.... 1200 kW

TRANSOMIK® BC2

Features
- Operation with frequency inverters for supply voltages up to 3AC 460 V, 575 V, 690 V
- Brake voltage threshold 670/770 V, 840/960 V, 1065/1155 V
- Increased power with optional fan
- Can be paralleled for higher powers

Applications
- Drives with large inertia
- Drives with requirement for rapid braking
- Drives for transport, long travel and hoisting applications
- Retrofit to existing inverters without braking chopper

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Drive Technology

Frequency inverters

TRANSOMIK® U1

Frequency inverter AC 110...480 V — 2.2 ... 30 kW

Features
- Self-optimizing PWM without a fixed switching frequency with the following advantages:
  - Low motor noise
  - High starting torque
  - Optimum smooth rotation at very low speeds
- DC braking possible without a braking chopper
- Control voltage derived from DC link:
  - Operation at 80 V and above
  - Controlled braking possible during supply disturbance
  - Supply from DC source possible
- Easy to service, all control connections pluggable
- No parameter setting necessary
- Space for customized options:
  - Technology board

Applications
- Speed variation for all types of three-phase induction motors
- Low-noise flow control of pumps and fans
- Refrigeration compressors
- Transport technology
- Positioning drives with cyclic acceleration and braking

EMC
- No expensive dV/dt filters necessary
- No screened motor cables necessary

TRANSOMIK® U2

Regenerative frequency inverters 3AC 200...480 V — 4 ... 160 kW

Features
- Self-optimizing PWM without a fixed switching frequency with the following advantages:
  - Low motor noise
  - High starting torque
  - Optimum smooth rotation at very low speeds
- Regenerative / braking chopper not necessary
- Control voltage derived from DC link:
  - Operation at 80 V and above
  - Supply from DC source possible
- Easy to service, all control connections pluggable
- No parameter setting necessary
- Space for customized options:
  - Technology board

Applications
- Speed variation for all types of three-phase induction motors
- Low-noise flow control of pumps and fans
- Dynamic drives
- Positioning drives with cyclic acceleration and braking

EMC
- No expensive dV/dt filters necessary
- No screened motor cables necessary

OEM / special versions / interfaces and options - please inquire

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Drive Technology

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