

# KENDRION

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KENDRION SOLUTIONS

**Electronic modules and rectifiers**  
for the control of industrial brakes

PRECISION. SAFETY. MOTION.

# Our brakes, electronic modules and rectifiers – perfect for your safe application

KENDRION Industrial Brakes – stands for smart innovation and excellent service, which we consistently apply for the benefit of our customers:



## Strong know-how

Our specialists develop the leading-edge permanent magnet and spring-applied brakes. With INTORQ as a new member of KENDRION, we have once again consistently expanded our range of spring-applied brakes and clutches for you. This way, we can find the right solution for any of your requirements.

## Complete product portfolio

Electromagnetic brakes and clutches as well as perfectly matched accessories: with us you will find an exceptionally large selection of quickly available off-the-shelf products that can be put together in a modular system and the best expertise for customer-specific solutions.

## Dynamic innovative power

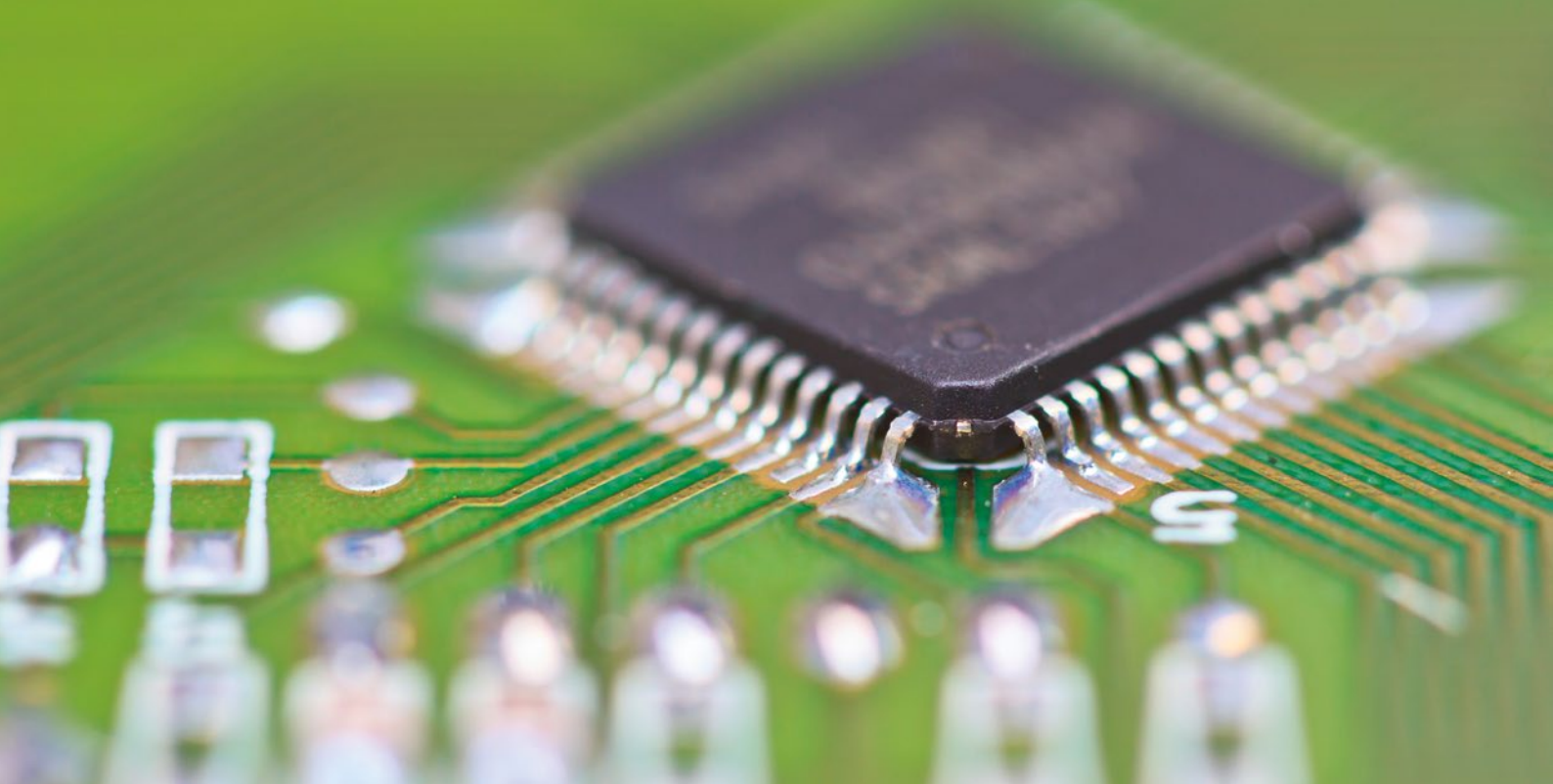
More than 50 specialists working in agile teams in our research and development worldwide are creating convincing product solutions for tomorrow.

## Excellent market knowledge

We are very familiar with our focus markets - thanks to extensive experience and research, but also thanks to long-term customer relationships built on partnership and eye-to-eye cooperation.

## International power

Committed and competent employees, production sites in Germany, United States, India and China as well as a large number of certified sales partners all over the world make us a strong partner for you!



## Electronic assemblies for industrial brakes – for versatile use

**The product range of Kendrion contains a variety of electronic components for the control of industrial brakes.**

A variety of the properties of brakes can be considerably improved through the use of control modules. Reaction times are significantly optimised by overexcitation functions and fast shutdown. Lowering of the holding voltage improves the thermal behaviour of the brake and saves energy. There are suitable electronic modules available for different classes. Depending on the mounting conditions, there are a variety of connection concepts. Kendrion as a result provides the optimum complementary control electronics for electromagnetic brakes for all applications.

# Technical details

## Compact and cost-effective



## Compact and cost-effective



<b>Series</b>	<b>Slim Collection (AC)</b>	<b>Slim Collection (DC)</b>
<b>Types</b>	32 x710xB5x	34 x0125Cxx PWM Module
<b>Features</b>	<ul style="list-style-type: none"> <li>- Very small design</li> <li>- Cost-effective</li> <li>- Versatile options for assembly and connection through central hole</li> <li>- Overexcitation function</li> <li>- Integrated fast shutdown</li> <li>- Energy savings up to 75%</li> </ul>	<ul style="list-style-type: none"> <li>- Very small design</li> <li>- Cost-effective</li> <li>- Versatile options for assembly and connection through central hole</li> <li>- Overexcitation function</li> <li>- Integrated fast shutdown</li> <li>- Energy savings up to 75%</li> </ul>
<b>Application examples</b>	<ul style="list-style-type: none"> <li>- Installation in motor connection box recommended</li> <li>- Universal use for all brakes up to size 16 depending on power consumption</li> <li>- Versatile assembly and connection options by central hole</li> </ul>	<ul style="list-style-type: none"> <li>- Small and cost-effective</li> <li>- Customized holding voltage / current</li> <li>- Suitable for retrofiting</li> </ul>
<b>Rated input voltage</b>	Max. AC 500 V	DC 12 to 48 V
<b>Max. output current ADC</b>	<ul style="list-style-type: none"> <li>- Half-wave: max. 1.0 A</li> <li>- Bridge: max. 1.0 A</li> <li>- Overexcitation: max. 2.0/1.0 A</li> </ul>	- Output: max. 2.0 ADC
<b>Overexcitation</b>	Yes	Yes
<b>Fast shutdown</b>	Internal with voltage detection	Internal with voltage detection
<b>Standards / approvals</b>	CE   ROHS   IP 00	CE   ROHS   IP 00
<b>Options and accessories</b>	<ul style="list-style-type: none"> <li>- Braids for motor connection</li> </ul>	<ul style="list-style-type: none"> <li>- Braids for motor connection</li> </ul>

## Small and cost-effective



### Lean Collection

32 0710.B.. | 32 0730.B..  
32 0731.B..

- Small design
- Cost-effective
- A wide range of options for installation and connection

- For use with spring-applied brakes up to size 16
- For applications with low requirements on the dynamics
- Installation in small connection boxes

Max. AC 500 V

- Half-wave: max. 1.0 A
- Bridge: max. 2.0 A

No

Depending on type external

CE | ROHS | IP 00

- Mounting rail clip
- Adhesive pad
- Strands for motor connection M4

## Universal and diverse



### Universal Collection

32 07.2.B.. | 32 17.2.B..  
32 4730.B.. | 32 57303B..  
32 67.04B.. | 32 77303B..

- All types of rectifiers and switches can be combined in one housing unit
- A wide range of options for installation and connection

- Universal use with all spring-applied brakes up to size 16, depending on power consumption
- Drives with high cycle rates
- Operating brakes with longer maintenance cycles and less heating
- Installation in Classic Line
- Separate use with brakes and magnets

Max. AC 500 (575) V

- Half-wave: 0.7 to 2.0 A
- Bridge: 0.7 to 2.0 A
- Overexcitation: 1.4/0.7 to 3.0/1.5 A

Depending on type 2:1

External or internal with voltage or current detection

CE | ROHS | IP 00 | UL

- Mounting rail clip
- Adhesive pad, mounting clip
- Strands for motor connection M4

# Technical details

## Intelligent and flexible



## High-performance and variable



Series	Standard Collection	Power Collection
Types	32 47124A00   32 57123A00 32 67124A00   32 77123A00 32 1735.E..	33 433 1.A..
Features	<ul style="list-style-type: none"> <li>- Intelligent rectifier with fast shutdown</li> <li>- Overexcitation function</li> </ul>	<ul style="list-style-type: none"> <li>- Overexcitation rectifier with adjustable holding voltage for high performance</li> <li>- Pluggable screw terminals enable simple electrical connection</li> </ul>
Application examples	<ul style="list-style-type: none"> <li>- For brakes with higher performance</li> <li>- from size 14</li> <li>- Simple installation due to circuitry in motor terminal box</li> </ul>	<ul style="list-style-type: none"> <li>- For use with large brakes and magnets</li> <li>- Holding power can be optimized</li> <li>- Fast shutdown</li> <li>- Mounting rail attachment</li> </ul>
Rated input voltage	Max. AC 500 V	Max. AC 415 V
Max. output current ADC	<ul style="list-style-type: none"> <li>- Half-wave: max. 1.2 A</li> <li>- Bridge: max. 1.2 A</li> <li>- Overexcitation: 2.4/1.2 A</li> </ul>	<ul style="list-style-type: none"> <li>- Overexcitation: 4 to 12 A</li> <li>- Holding excitation: 2 to 9 A</li> </ul>
Overexcitation	Depending on type 2:1	Yes
Fast shutdown	External or internal with voltage or current detection	External via contactor contact
Standards / approvals	CE   ROHS   IP 00   UL	CE   ROHS   IP 00
Options and accessories	<ul style="list-style-type: none"> <li>- Carrier rail mounting upon request</li> <li>- Screw connection housing</li> <li>- Strands for motor connection M4</li> </ul>	<ul style="list-style-type: none"> <li>- Carrier rail mounting</li> <li>- Open circuit board</li> <li>- Pluggable screw terminals</li> </ul>

## Standard and robust



## Simple and small



### Regular Collection

BEG-...-...

- Different voltage variants to cover the entire mains voltage range
- Versatile mounting and connection options
- Horizontal or vertical installation possible
- Installation in the motor connection box
- INTORQ color code for fast detection of rectifier function

Max. AC 550 V

- Half-wave: 0.75 A
- Bridge: 0.75 A
- Overexcitation: 1.5/0.75 to 3.0/1.5 A

Yes

External relay

CE | ROHS | IP 00 | UL

- Various mounting solutions

### Compact Collection

BEG-...-...

- Variant program for two input voltage ranges
- Two different housing variants allow the assembly by screwing or locking
- Installation in the motor connection box
- IINTORQ color code for fast detection of rectifier function

Max. AC 555 V

- Half-wave: 1.0 A
- Bridge: 1.0 A

No

None

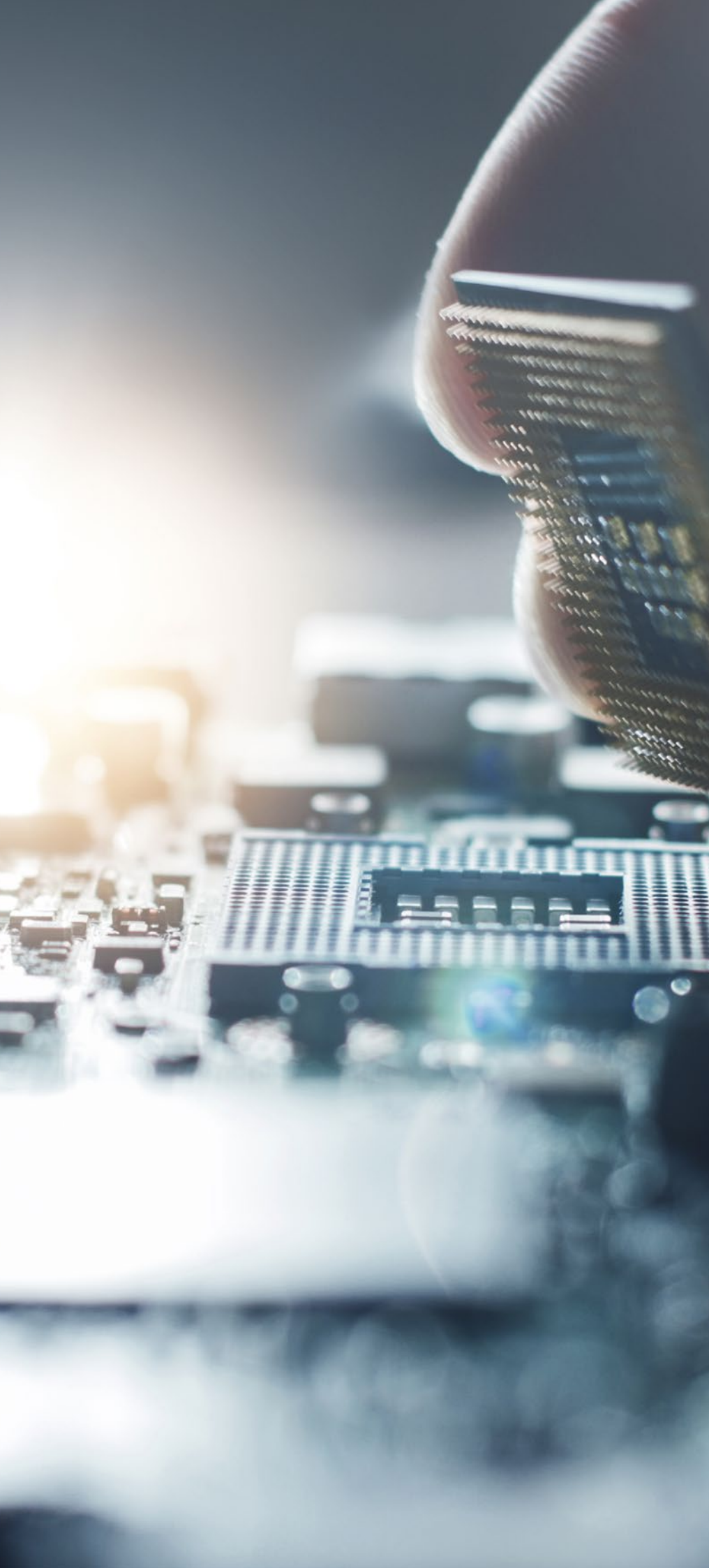
CE | ROHS | IP 00 | UL

- Various mounting solutions



You can find the right execution for your application in our product finder!





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