

Product Group Braking Devices



Quality is our Drive.

PETER electronic Quality is our Drive.

Product Group Braking Devices

PETER electronic sets your machines intelligently in motion, controls them reliably, and brings them to a standstill in a controlled way. Our comprehensive range of products includes braking devices, frequency inverters, thyristor controllers and soft starters. PETER electronic's braking devices enable low-wear and reliable braking of your machines and plants. Electronic DC brakes from PETER electronic are used wherever the deceleration time of the tool (saw disk, cutting blade, milling cutter, etc.) needs to be shortened for time and/or safety reasons. Our braking systems offer you convincing advantages:

Reduction of your routine maintenance costs

Extended lifetime of your equipment

Freedom from interference according to EMC-directive

No additional line reactors required

Competent technical support

Development of individual solutions

Quality and service – “made in Germany”

A COMPREHENSIVE OFFER

We offer solutions for all kinds of application and industries. We will be pleased to develop individual devices and types for you.

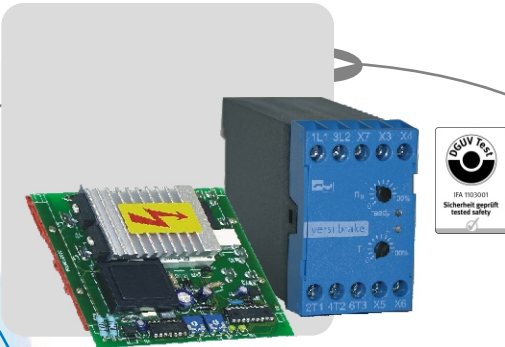


The systems VersiBrake and VersiComb meet the requirements of the IFA (Technical Committee for Wood) according to the Test Principles Wood working machines GS-HO-01. The VersiComb and the VersiBrake L (LP) devices are certified with the DGVV test mark. Upon request this is also possible for further versions.



Braking Devices with standstill-dependent braking

Braking Device VersiBrake 6/25/30L (LP)



- braking current control: simple and safe commissioning due to infinitely variable braking current
- space-saving variant, in 45mm housing or on PCB
- controlled by microcontroller
- wear-resistant and maintenance-free
- integrated braking contactor
- easy mounting, also for retrofitting into existing plants
- double safety by control via motor contactor and motor voltage detection
- also suitable for use with single-phase motors
- for modernizing existing plants and adapting your machines to applicable trade association requirements
- extending the motor life due to automatic standstill detection function and switch-off of braking current after motor standstill

Advantages:

space-saving, favorably priced, compliant to German trade association requirements, safety, reduced machine cycle times by self-optimizing delay time for reduction of residual e.m.f., optional additional functions on request



Braking Device VersiBrake 25

- limitation of braking current to 1.3-fold rated device current
- controlled by microcontroller
- wear-resistant and maintenance-free
- integrated braking contactor
- easy mounting, also for retrofitting into existing plants
- for modernizing existing plants and adapting your machines to applicable trade association requirements
- extending the motor life due to automatic standstill detection function and switch-off of braking current after motor standstill

Advantages:

reduced machine cycle times by self-optimizing delay time for reduction of residual e.m.f., optional additional functions on request



Braking Device VersiBrake 36

- limitation of braking current to 1.3-fold rated device current
- controlled by microcontroller
- wear-resistant and maintenance-free
- easy mounting, also for retrofitting into existing plants
- for modernizing existing plants and adapting your machines to applicable trade association requirements
- extending the motor life due to automatic standstill detection function and switch-off of braking current after motor standstill

Advantages:

reduced machine cycle times by self-optimizing delay time for reduction of residual e.m.f., optional additional functions on request

Braking Devices with standstill- and time-dependent braking

Braking Device VersiBrake 40 ... 600

- braking current control: simple and safe commissioning due to infinitely variable braking current
 - controlled by microcontroller
 - wear-resistant and maintenance-free
 - integrated braking contactor up to 60A
 - easy mounting, also for retrofitting into existing plants
 - for modernizing existing plants and adapting your machines to applicable trade association requirements
 - UL certificated
 - robust metal housing, degree of protection: IP 20
 - extending the motor life due to automatic standstill detection function and switch-off of braking current after motor standstill
- Advantages:**
 reduced machine cycle times by self-optimizing delay time for reduction of residual e.m.f., optional additional functions on request



Braking Devices with time-dependent braking

Braking Devices VB 230/400-6/25/30LT

- suitable for all asynchronous motors and for mono phase motors
 - controlled by microcontroller
 - easy mounting, also for retrofitting into existing plants
 - successor for braking devices type BR and BR-L
- Advantages:**
 overload protection, braking current control, potential-free output for motor contactor interlocking during braking; also usable to energize the star contactor during braking



Braking Device BR 400 - 10 ... 600A

- DC braking with one-way rectification
 - suitable for all asynchronous motors
 - easy mounting in your existing plants
 - wear-resistant and maintenance-free
 - integrated braking contactor (devices up to 20A)
 - for easy and flexible mounting onto 35mm top-hat rail (up to 20A)
 - robust housing, degree of protection: IP20
- Advantages:**
 time-dependent DC braking for simple applications; very suitable for multi-motor braking, making the use of further braking devices unnecessary; low-priced solution for shortening the deceleration time; increasing the machine run time



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Overview Features

| Type designation | BR | | VB LT | VB-6/25/30L (LP) | VB25 | VB36 | VB 40...600 | |
|--|----------------------|----------|-------------|------------------|------------|------------|---------------|------------|
| | Rated device current | | 6 up to 30A | 6/25/30A | 25A | 36A | 40 up to 600A | |
| | ≤20A | ≥40A | | | | | ≤60A | ≥100A |
| Features (options included) | | | | | | | | |
| Brake start via motor contactor | Included | Included | Included | Included | Included | Included | Included | Included |
| Brake start via motor voltage | Included | Included | Included | Included | Included | Included | Included | Included |
| Integrated braking contactor | Included | Included | Included | Included | Included | Included | Included | Included |
| Standstill-dependent braking | Included | Included | Included | Included | Included | Included | Included | Included |
| Time-dependent braking | Included | Included | Included | Included | On request | Included | Included | Included |
| Signaling relay for exceeded braking times | Included | Included | Included | Included | Included | Included | Included | Included |
| Current control 0 up to 100% | Included | Included | Included | Included | On request | On request | Included | Included |
| Automatic remanence time optimization | Included | Included | Included | Included | Included | Included | Included | Included |
| Thermal overload monitoring | Included | Included | Included | Included | Included | Included | Included | Included |
| Monitoring of braking frequency | Included | Included | Included | Included | On request | On request | Included | Included |
| 2nd braking time selectable | Included | Included | Included | Included | Included | Included | Included | Included |
| Manual braking stop selectable | Included | Included | Included | Included | Included | Included | Included | Included |
| Fault signaling relay | Included | Included | Included | only LP | Included | Included | Included | Included |
| Braking current display | Included | Included | Included | Included | Included | Included | Included | Included |
| Wide-voltage-range-capable | Included | Included | Included | Included | Included | Included | Included | Included |
| Plug-in control terminals | Included | Included | Included | Included | Included | Included | Included | Included |
| Motor PTC monitoring | Included | Included | Included | Included | Included | Included | Included | Included |
| Star-delta starting control | Included | Included | Included | Included | Included | Included | Included | Included |
| Special voltage | Included | Included | Included | Included | Included | Included | Included | Included |
| DGUV test mark | Included | Included | Included | Included | Included | Included | On request | On request |
| UL/ CSA Certification | Included | Included | Included | Included | Included | Included | Included | Included |

Included On request Not included

Applications

wood-working machines (e.g., panel-sizing saws, band saws, moulding and planing machines, butt reducers), conveyor systems with long coast-down times, centrifuges, vibration screening machines, vibrating conveyor systems, welding and plastering machines, machines for the meat-processing industry, stone-working machines, metal-working machines, plastics processing machines