

# Braking Devices VersiBrake 25A

3.07

#### Features:

- DC braking with one-way rectification
- controlled by microcontroller
- suitable for all asynchronous motors
- easy mounting, also for retrofitting into existing plants
- wear-resistant and maintenance-free
- special voltages up to 575V (UL: up to 480V) with option "B"
- for snap-mounting onto 35mm top-hat-rail
- degree of protection IP 20



Braking Devices VB 230/400-25

#### **Function:**

- control via motor contactor
- standstill detection
- braking current limited to rated device current
- remanence time optimization
- braking current infinitely adjustable
- potential-free output for motor contactor interlocking during braking
- potential-free output for fault signalling relay

### Options: (upon request)

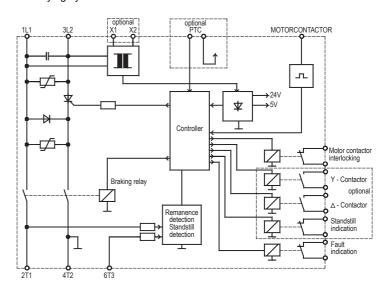
- star-delta starting control (D)
- motor temperature monitoring (P)
- standstill signalling relay (S)
- wide-voltage-range 200-575V (B) control voltage of 24VAC or 230VAC is necessary (please note in order)

## **Upon Request:**

printed circuit-board version

# **Typical Applications:**

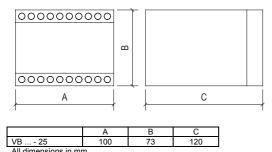
sawing machines centrifuges wood working machines textile machines conveying systems



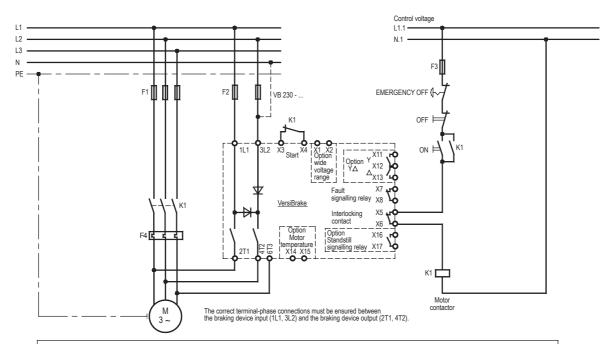
Type designation VB	230-25 400-25
Mains voltage	VB 230 220/240V ±10% 50/60Hz Option "B"
according to DIN EN 50160 (IEC 38)	VB 400 380/415V ±10% 50/60Hz 200575V ± 10% 50/60Hz
Power draw of the electronics	6 VA
Recommended for rated motor currents up to	12,5A
Rated device current	25A
c.d.f. at max. braking current	8%
I <sup>2</sup> t-Value Power semiconductor	1250A <sup>2</sup> s
Braking voltage	0 130VDC at 220/240V
	0 220VDC at 380/415V
max. Braking time	15sec. (other times upon request)
Contact rating of output relay	6A/250VAC,6A/30VDC
Delay time for reduction of residual e.m.f.	self-optimizing (100 2500ms)
max. cross-sectional area	2x 2,5mm per terminal
Ambient / Storage temperature	0°C 45°C / -25°C 75°C
Weight / kg	0,8
Order number 230V	21900.23025
Order number 400V	21900.40025
Order number 230V - UL	29800.23025
Order number 400V - UL	29800 40025

Please observe supplementary sheet with dimensioning rules.

### Dimensions:



## **Connection Diagrams:**



EMC

The limit values for emitted interference according to the applicable device standards do not rule out the possibility that receivers and susceptible electronic devices within a radius of 10m are subjected to interference. If such interference, wich is definitely attributable to the operation of the braking devices "VB", occurs, the emitted interference can be reduced by taking appropriate measures.

Such measures are, e.g.:

To connect reactors (3mH) or a suitable mains filter in series before the braking device, or to connect X-capacitors (0.15µF) in parallel to the

supply voltage terminals.