PETER electronic

Braking Devices VersiBrake 230/400-25L 3.05

Features:

- DC braking with one-way rectification
- suitable for all asynchronous motors
- controlled by microcontroller
- easy mounting, also for retrofitting into existing plants
- wear-resistant and maintenance-free
- integrated braking contactor
- for snap-on mounting onto 35mm DIN rail
- degree of protection: IP 20
- meets trade assoc. requirements for category 2 acc. to EN 954-1

Illustration may slightly vary

Braking Devices
VB 230-25L
VB 400-25L
CE

Function:

- control via motor contactor and motor voltage detection (double safety)
- braking current cutoff after motor standstill
- braking current control
- automatic remanence time optimization
- braking current infinitely adjustable 0-100%
- potential-free output for motor contactor interlocking during braking
- standstill threshold adjustable

Typical Applications:

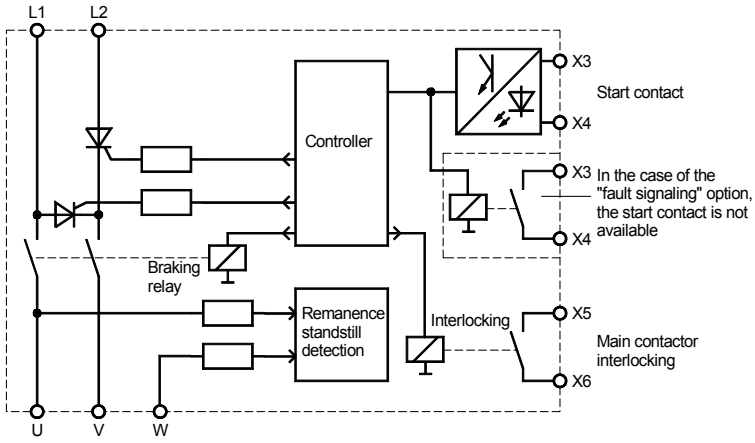
sawing machines
centrifuges
wood working machines
textile machines
conveying systems

Options:

- also deliverable with fault signaling relay; in this case, however, the start of the brake is only initiated by motor voltage detection.

On Request:

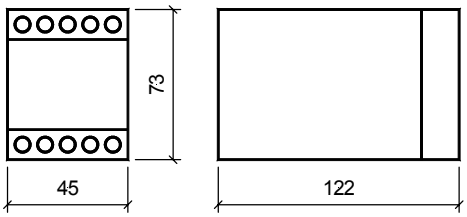
- circuit-board version



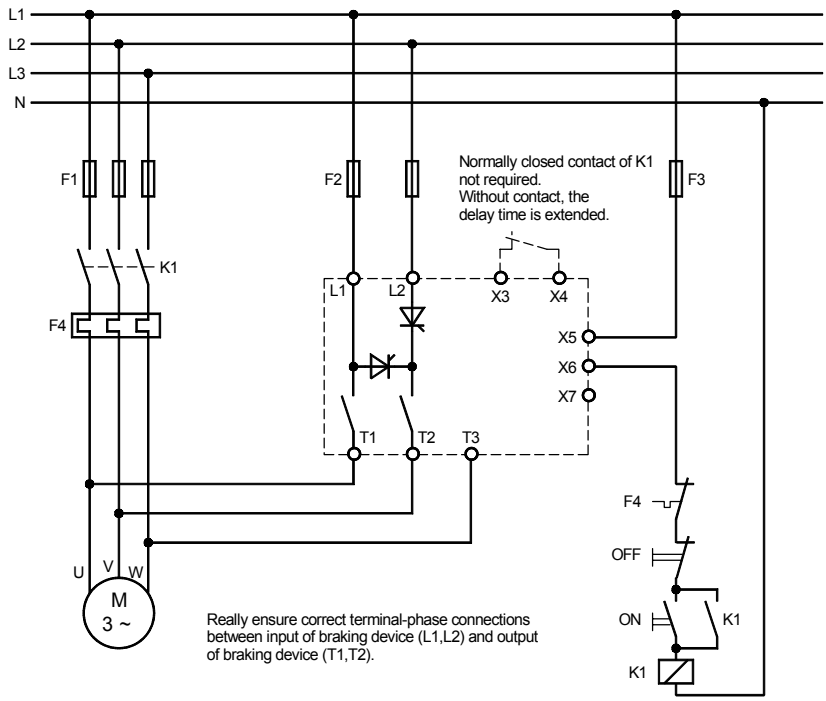
Type designation	VB 230-25L	VB 400-25L
Mains voltage acc. to DIN EN 50160 (IEC 38)	220/240V ±10% 50/60Hz	380/415V ±10% 50/60Hz
Power draw of electronics	3 VA	
Recommended for rated motor currents up to	12.5A	
Rated device current	25A	
max. Braking frequency at a braking time of 5s	1/min.	
I^2t-value of power semiconductors	1250 A^2s	
Braking voltage	0 ... 110VDC	0 ... 220VDC
max. Braking time	12s	
Contact rating (control relay)	6A/250V	
Delay time for reduction of residual e.m.f.	self-optimizing in the range between 0.2 … 2s	
max. Cross-sectional area for connection	2x 2.5mm² per terminal	
Ambient / Storage temperature	0°C ... 45°C / -25°C ... 75°C	
Weight	0.6kg	
Order number	2B000.23025	2B000.40025

Please observe supplementary sheet with dimensioning rules.

Dimensions:

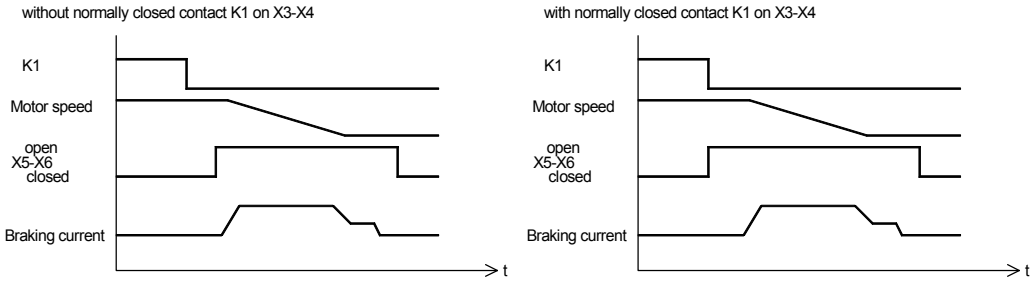


Connection Diagram:



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, which 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.

Functional description X3, X4



Subject to change without notice.