

### Features:

- ❑ DC braking with one-way rectification
- ❑ suitable for all asynchronous motors and for mono phase motors
- ❑ controlled by microcontroller
- ❑ easy mounting, also for retrofitting into existing plants
- ❑ wear-resistant and maintenance-free
- ❑ integrated braking contactor
- ❑ printed circuit-board version with fault signalling contact
- ❑ for snap-on mounting onto 35mm DIN rail
- ❑ degree of protection: case version IP 20, printed circuit-board version (LP) IP 00
- ❑ meets trade assoc. requirements for category 2 acc. to EN 954-1 acc. to the test principles of woodworking machines GS-HO-01



**Braking Devices**  
**AC-VB 230-6/25/30L (LP)**  
**AC-VB 400-6/25/30L (LP)**

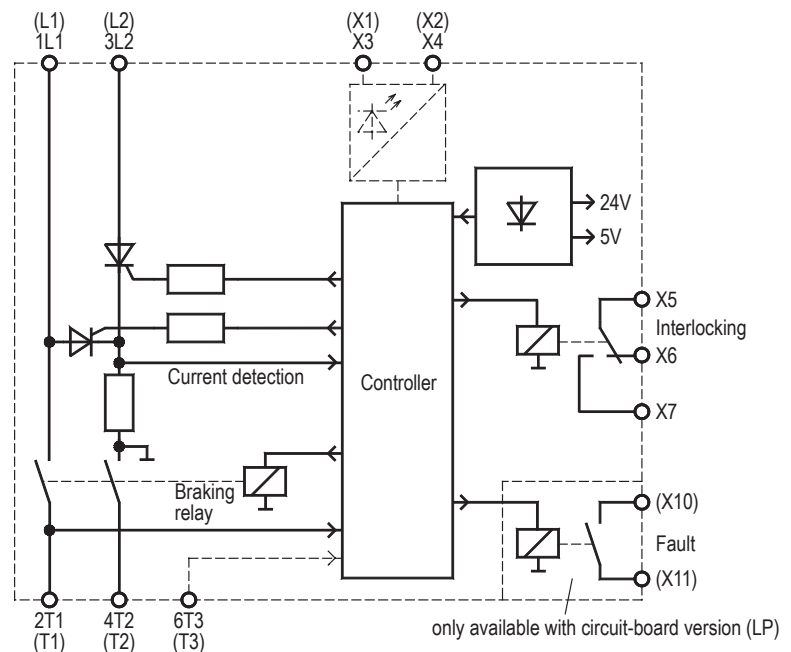


### Function:

- ❑ start braking via detection of motor voltage and via motor contactor (double safety)
- ❑ overload protection
- ❑ braking current cutoff after motor standstill
- ❑ braking current control
- ❑ automatic remanence time optimization
- ❑ braking current infinitely adjustable 10-100%
- ❑ potential-free output for motor contactor interlocking during braking; also usable to energize the star contactor during braking
- ❑ standstill threshold adjustable; individual adaptable to different motor types

### Typical Applications:

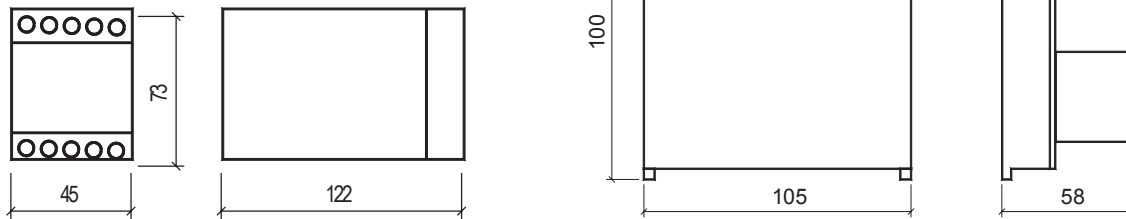
sawing machines  
 centrifuges  
 wood working machines  
 textile machines  
 conveying systems



Type designation	AC-VB 230-6L	AC-VB 230-25L	AC-VB 230-30L	AC-VB 400-6L	AC-VB 400-25L	VAC-B 400-30L
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	0,3 ... 3A	2 ... 12,5A	2 ... 15A	0,3 ... 3A	2 ... 12,5A	2 ... 15A
Rated device current	6A	25A	30A	6A	25A	30A
max. Braking frequency at a braking time of 5s	1/8s	1/60s	1/90s	1/8s	1/60s	1/90s
I <sup>2</sup> t-value of power semiconductors	310A <sup>2</sup> s	1250A <sup>2</sup> s	1350A <sup>2</sup> s	310A <sup>2</sup> s	1250A <sup>2</sup> s	1350A <sup>2</sup> s
Braking voltage	0 ... 110VDC			0 ... 220VDC		
max. Braking time	12s					
Contact rating (control relay)	3A/250VAC; 3A/30VDC					
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 2,5mm <sup>2</sup> per terminal					
Ambient / Storage temperature	0°C ... 45°C / -25°C ... 75°C					
Weight / kg	0,6					
Order number case version (L)	2B000.23006	2B000.23025	2B000.23030	2B000.40006	2B000.40025	2B000.40030
Order number printed circuit-board version (LP)	2B100.23006	2B100.23025	2B100.23030	2B100.40006	2B100.40025	2B100.40030

Please observe supplementary sheet with dimensioning rules.

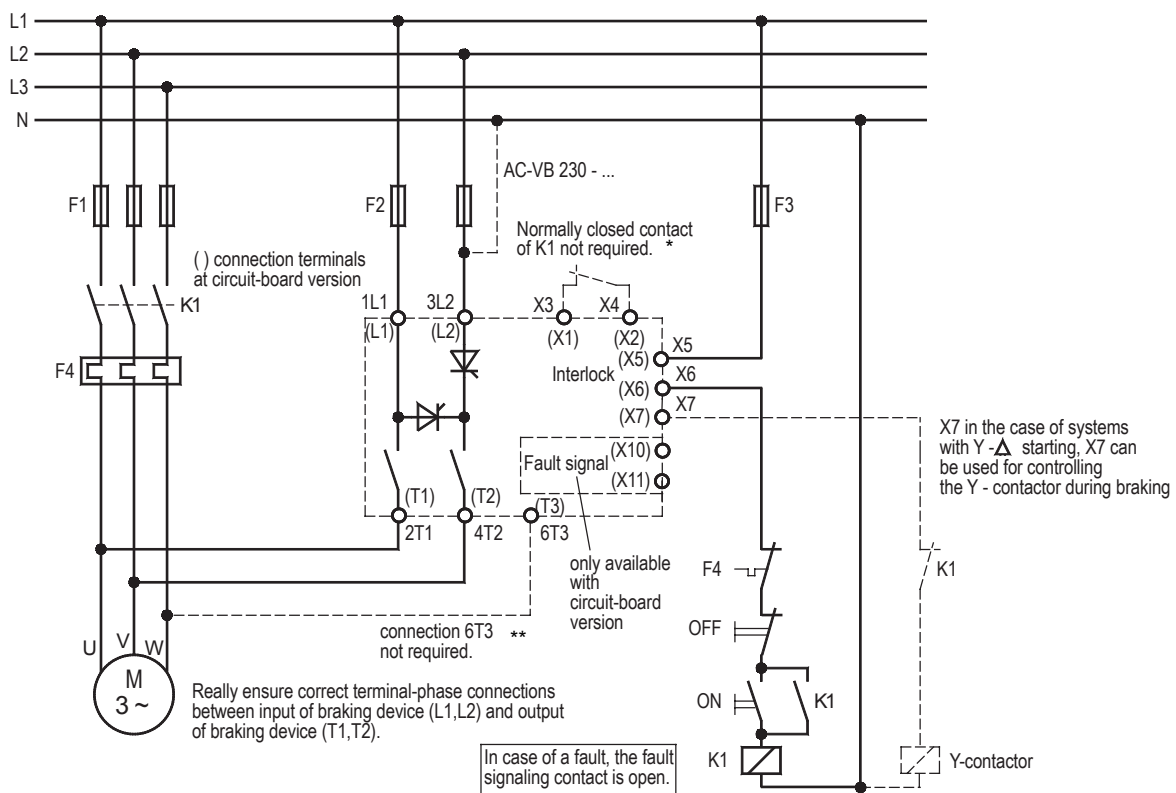
## Dimensions:



case version

printed circuit-board version (LP)

## 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 "AC-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:

- \* Connection of X3, X4 will only be needed if double security for the start of braking is required.
- \*\* Connection of 6T3 is only necessary with very short standstill times of motor (<3s). If 6T3 is not connected and a motor standstill is detected within 3s, the braking current is switched off after the security time. Therefore a failure is monitored.

Subject to change without notice.