RALSPEED
MOTOR CONTROL SYSTEMS

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

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

Options:

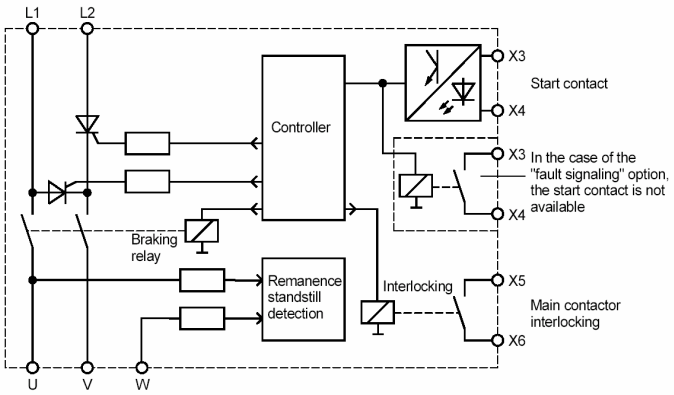
- also deliverable with fault signaling relay; in this case, however, the start of the brake is only initiated by motor voltage detection.

On Request:

- A circuit-board version

Typical Applications:

- sawing machines
- centrifuges
- wood working machines
- textile machines
- conveying systems



Technical Data	VERSIBRAKE	
	VB230-25L	VB400-25L
Mains / Motor voltage	220/240V ±10% 50/60Hz	380/415V ±10% 50/60Hz
Power draw of electronics	3VA	
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 values of power semiconductors	$1250A^2s$	
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 section area for connection	2 x 2.5mm² per terminal	
Ambient / Storage temperature	0°C … 45°C up to an altitude of 1000m / -25°C….70°C	
Weight	0.6Kg	

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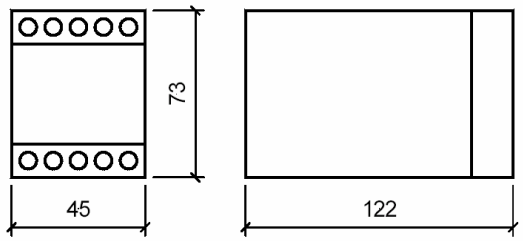
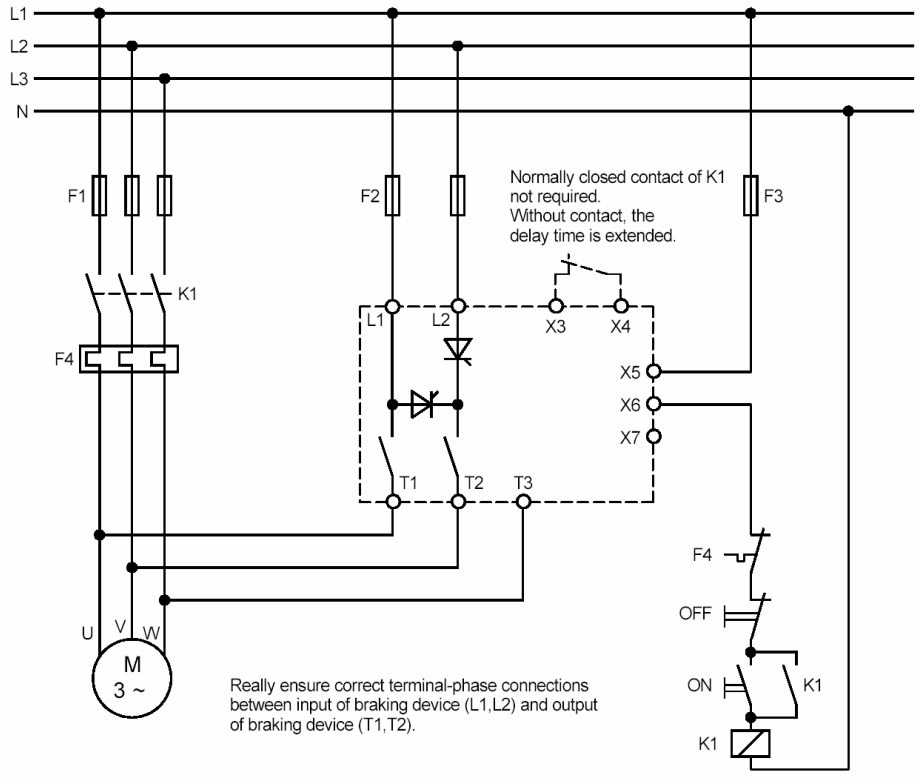
Dimensions:



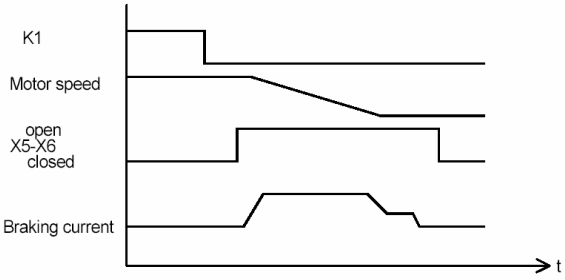
Connection Diagram:



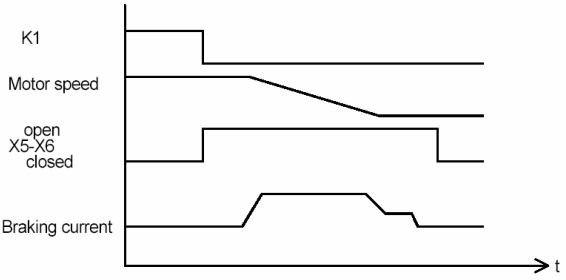
EMC
The limit values for emitted interference according to the applicable device standards do not rule out the possibility that receivers and susceptible electronic devices within a radius of 10m are subjected to interference. If such interference, which is definitely attributable to the operation of 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

without normally closed contact K1 on X3-X4



with normally closed contact K1 on X3-X4



Subject to change without notice.

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