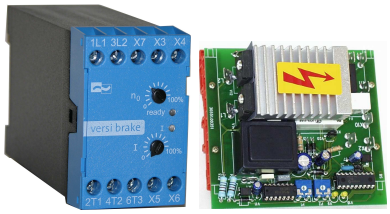
Braking Devices VersiBrake 230/400-6/25/30L (LP) 3.03

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 signaling contact
- for snap-on mounting onto 35mm DIN rail
- degree of protection: case version IP 20,
  printed circuit-board version IP 00
- meets trade assoc. requirements for PL = b,
  acc. to DIN EN ISO 13849-1

IFA 1403003
Sicherheit geprüft
tested safety



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

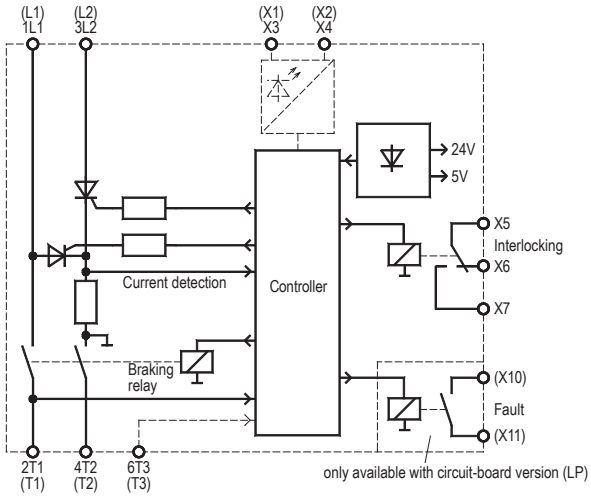
CE

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



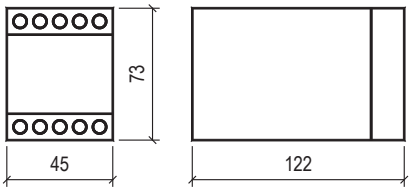
Type designation	VB 230-6L	VB 230-25L	VB 230-30L	VB 400-6L	VB 400-25LT	VB 400-30L
rated device current	6A	25A	30A	6A	25A	30A
mains voltage according to DIN EN 50160 (IEC 38)	220/240V ±10% 50/60Hz			380/415V ±10% 50/60Hz		
order number case version (L)	2B000.23006	2B000.23025	2B000.23030	2B000.40006	2B000.40025	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.

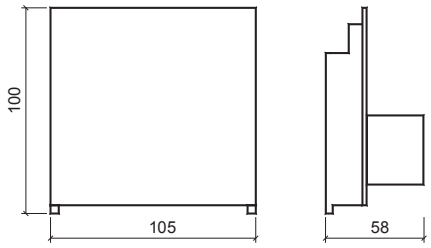
Technical data	VB 230-6L	VB 230-25L	VB 230-30L	VB 400-6L	VB 400-25L	VB 400-30L
mains voltage acc. to DIN EN 50160 (IEC 38)	220/240V ±10% 50/60Hz			380/415V ±10% 50/60Hz		
power draw of electronics	3 VA					
recommended for rated motor current up to	0,3 ... 3A	2 ... 12,5A	2 ... 15A	0,3 ... 3A	2 ... 12,5A	2 ... 15A
rated device current	6A	25A	30A	6A	25A	30A
max. braking frequency at braking time of 5s	1/8s	1/60s	1/90s	1/8s	1/60s	1/90s
I^2t-value of power semiconductors in A^2s	310	1250	1350	310	1250	1350
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 2,5mm² per terminal					
ambient /storage temperature	0°C ... 45°C / -25°C ... 75°C					
weight / kg	0,6					

Dimensions:

case version (L)

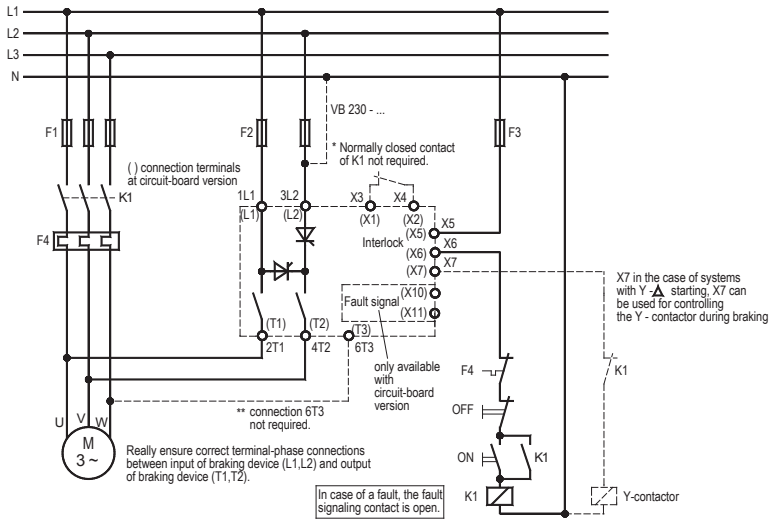


printed circuit-board verson (LP)



Alle dimensions in mm

Connection Diagram:



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.