

Features:

- ☒ braking device as a printed circuit board version
- ☒ DC braking with fully controlled bridge circuit up to 60A
- ☒ a structure without mechanical switching elements in power circuit
- ☒ integrated standstill detection
- ☒ monitoring of stopping time
- ☒ suitable for all asynchronous motors
- ☒ suitable for IE1, IE2 and IE3 motors
- ☒ self-optimizing braking
- ☒ CANopen on board
- ☒ push-in power and control terminals
- ☒ TÜV certified
- ☒ meets trade assoc. requirements for PL = c / SIL1,
acc. to EN ISO 13849-1:2016-06 / EN 61508-1:2011-02



Braking device
VB S LP [60A]



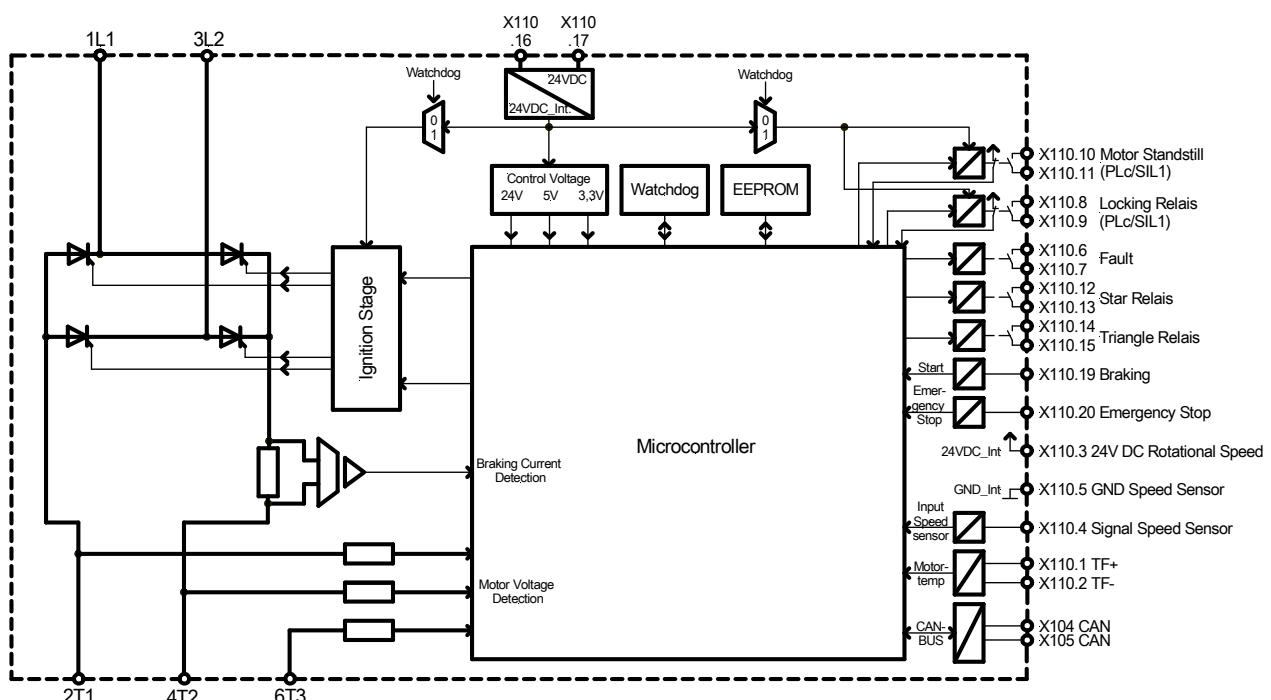
CE (cRus in preparation)

Functions:

- ☒ parameterization via CAN-Bus
- ☒ potential-free control inputs and outputs
- ☒ motor temperature monitoring (switch, PTC, KTY, PT100)
- ☒ emergency stop function
- ☒ device protection
- ☒ tool speed monitoring (external speed sensor required)
- ☒ safety-related motor standstill relay (safety door interlock)
- ☒ safety-related locking relay
- ☒ fault relay
- ☒ star-delta starting control

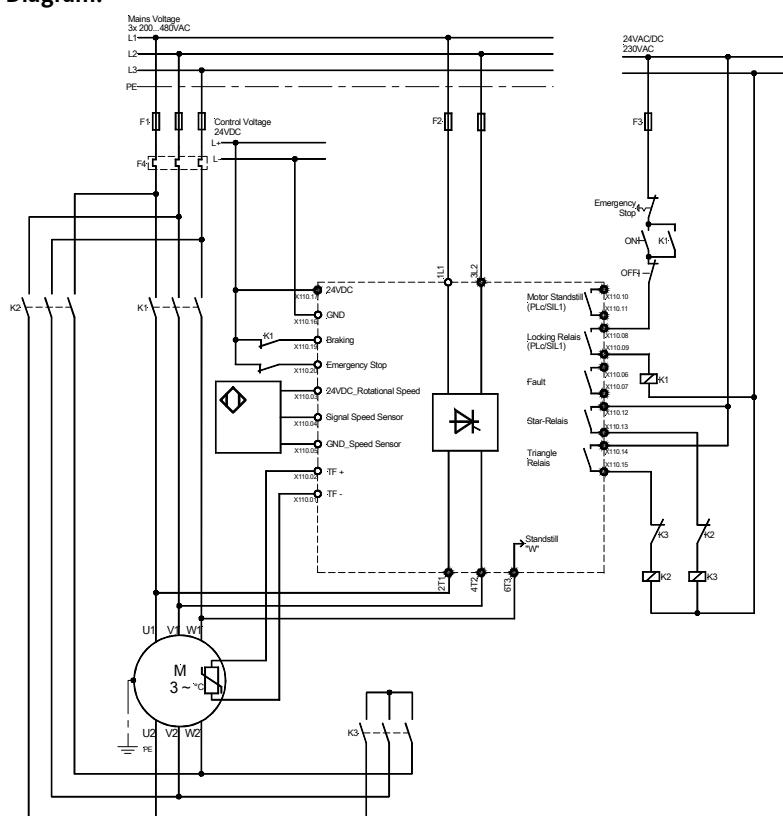
Typical Applications:

security doors
vibration sifters
wood working machines (milling/planing machines)
grinding machines
mixer, et cetera



Subject to change without notice.

type designation	Versibrake Safe LP 480-60 Plc
order number	2B600.48060
device rated current Ie	60A
rated operational voltage Ue	200...480VAC ±10% 50/60Hz
control supply voltage Us	24VDC ±10% / 1,0A
motor rating at Ue 400V	4,0 ... 15kW
switching per hour at t_{an}/t_{br} = 10s with IMax (device) 60A RMS	20
utilization category	AC-53b 1-10:170
max. power dissipation	
- during operation max. start frequency	approx. 25W
- standby	approx. 8W
I²t(125°) (A²s) - thyristors	1800
braking time	self-optimizing (Default 8s)
restart time	200ms
control voltage Uc	24VDC ±10%
input resistance control inputs	5kOhm
contact rating of relay outputs	3A / 250VAC / 30VDC
installation class	3
overvoltage category / degree of pollution:	
control and auxilliary circuit	II / 2
main circuit	III (TT / TN / TI-Netze) / 2
rated impulse withstand voltage Uimp:	
control and auxilliary circuit	2,5kV
main circuit	4kV
rated insulation voltage Ui:	
control and auxilliary circuit	24V
main circuit	480V
max. cross-sectional area for connection solid/flexible:	
control terminals	0,2 - 1,5mm ² / 0,2 - 1,5mm ²
control terminal with ferrule	0,25- 0,75mm ² / 0,25- 0,75mm ²
power terminals	0,2...6mm ² / 0,2...6mm ²
dimensions (WxHxD)	130x140x65
weight	505g

Connection Diagram:

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