

**Braking Devices VersiBrake Safe 72 ... 360A** 3.01

**Features:**

- ▣ DC braking with one-way rectification
- ▣ integrated braking contactor
- ▣ 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
- ▣ degree of protection IP20
- ▣ pluggable push-in control terminals
- ▣ meets trad assoc. requirements for PL =c, acc. to EN13849-1:2008



**Braking Devices  
VB S 480/600 – 72 ... 360**  
CE c UL US LISTED

**Function:**

- ▣ parameterization via keypad or CAN-Bus
- ▣ potential-free control inputs and outputs
- ▣ motor temperature monitoring (PTC, KTY, PT1000)
- ▣ device protection
- ▣ tool speed monitoring (external speed sensor required)
- ▣ device fault relay (safety relevant)
- ▣ summary fault relay
- ▣ star-delta starting control

**Typical Applications:**

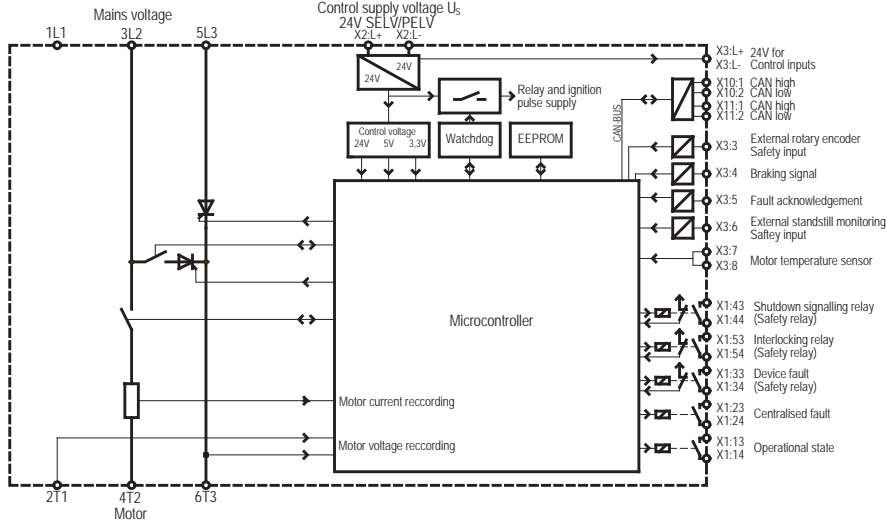
- centrifuges
- vibration sifters
- wood working machines
- grinding machines
- mixer, et cetera

**Option:**

- ▣ wide-voltage-range 480 – 690VAC upon request

**Accessory:**

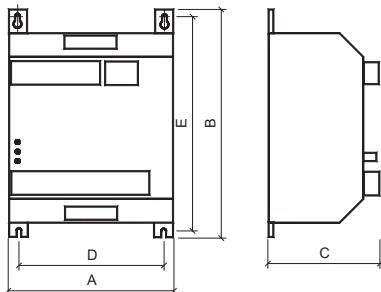
- ▣ adaptor for VB Safe 72A-222A for mounting onto DIN rail (order no. 29000.29700)



Typ designation	VB S 480/600-72	VB S 480/600-132	VB S 480/600-222	VB S 480/600-360
mains / motor voltage acc. to DIN EN 50160 (IEC 38)	VB S 480-...: 200...480V ±10% 50/60Hz VB S 600-...: 400...600V ±10% 50/60Hz			
control supply voltage Us	24VDC ± 10% / 0,5A			
order number 480V	2B500.48072	2B500.48132	2B500.48222	2B500.48360
order number 600V	2B500.60072	2B500.60132	2B500.60222	2B500.60360

Technical data	VB S 480/600-72	VB S 480/600-132	VB S 480/600-222	VB S 480/600-360
max. braking current I <sub>e</sub>	72A	132A	222A	360A
rated operational voltage U <sub>e</sub>	200...480VAC / 400...600VAC ±10% 50/60Hz			
control supply voltage U <sub>s</sub>	24VDC ±10% / 0,5A			
recommended motor rating at U <sub>e</sub> 400V – IE3 motors	7,5kW	15kW	25kW	45kW
recommended motor rating at U <sub>e</sub> 400V – IE2 motors	15kW	30kW	55kW	90kW
switching cycle per hour at t <sub>br</sub> =10s with I <sub>e</sub>	50	30	17	18
utilization category	72A; AC-53b; 1-10; 62	132A; AC-53b; 1-10; 110	222A; AC-53b; 1-10; 202	360A; AC-53b; 1-10; 190
max. power dissipation				
- during operation at max. switching frequency, t <sub>br</sub> =10s with I <sub>e</sub>	22W	22W	22W	36W
- standby	6W	6W	6W	6W
I <sup>2</sup> t <sup>(25s)</sup> (A <sup>2</sup> s) – length thyristor L <sub>3</sub> / free running thyristor	720 / 720	16200 / 4000	16200 / 4000	125000 / 51200
braking time	fixed braking time 0,25...25s or self-optimizing (Default)			
restart time	200ms			
control voltage U <sub>c</sub>	24VDC ±10%			
input resistance control inputs	5kOhm			
contact rating of relay outputs	2A / 250VAC / 30VDC			
max. cross-sectional area for connection solid/flexible				
- control terminals	1,5mm <sup>2</sup>			1,5mm <sup>2</sup>
- power terminals / length of stripping or wire ferrule	1,5...16mm <sup>2</sup> / 18mm			6...35mm <sup>2</sup> / 15mm
drive connection screw				hexagon socket 5mm
functional safety: DIN EN 61508 / DIN EN 13849	SIL 1 / PL c			
ambient / storage temperature	-15°C ... 45°C up to an altitude of 1000m / -25°C ... 75°C			
size	1	1	1	2
weight / kg	1,35	1,45	1,45	3,6

Dimensions:



size	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
1	103	230	138	86	220
2	205	230	160	183	220

Connection Diagram:

