

Braking Devices AC-VersiBrake 40 ... 600A **3.11**

Features:

- ❑ DC braking with one-way rectification
- ❑ controlled by microcontroller
- ❑ suitable for all asynchronous motors
- ❑ easy mounting, also for retrofitting into existing plants
- ❑ wear-resistant and maintenance-free
- ❑ integrated braking contactor (devices up to 60A)
- ❑ degree of protection IP 20



**Braking Devices
AC-VB 230/400-40 ... 600**

CE UL in preparation

Function:

- ❑ control via motor contactor
- ❑ standstill- or time-dependent braking
- ❑ signalling relay for exceeded braking times
- ❑ braking current adjustments 0...100%, current control
- ❑ automatic remanence time optimization
- ❑ braking times 0,5 – 320s
- ❑ temperature monitoring of heat sink
- ❑ potential-free signalling and control outputs
- ❑ 2nd braking time 0,5 – 40s selectable
- ❑ manual braking stop selectable

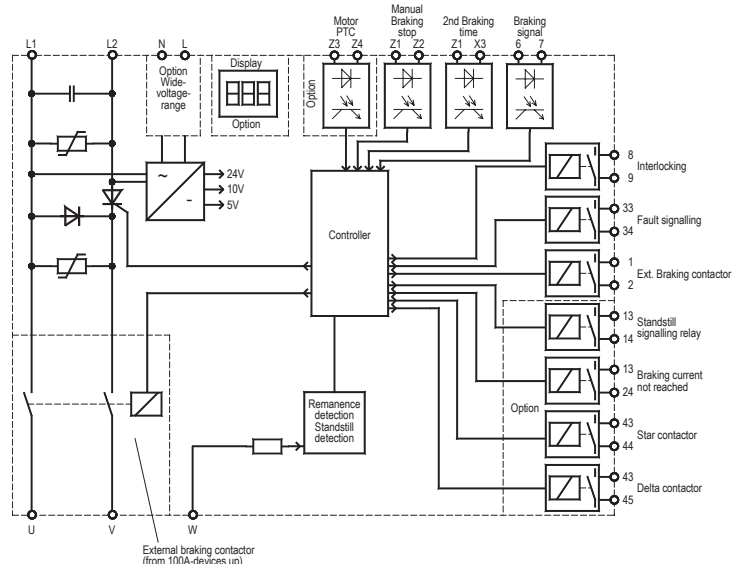
Typical Applications:

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

Options: (upon request)

- ❑ braking current display (AC*)
- ❑ wide voltage range 200 – 690V (BC*)
- ❑ plug-in control terminals (C)
- ❑ motor temperature monitoring (PC*)
- ❑ star-delta starting control (PC*)
- ❑ standstill signalling relay (PC*)
- ❑ braking current monitoring (PC*)
- ❑ Adaptor for braking devices 40A-200A for mounting onto DIN rail (order number 29000.29700)

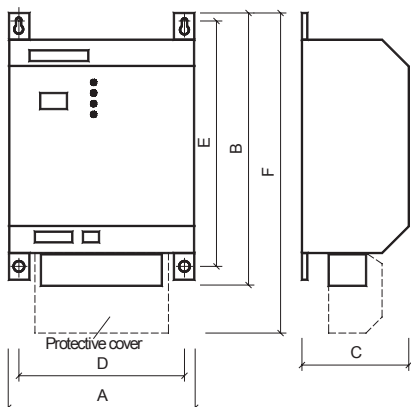
* Devices with options are always equipped with pluggable control terminals.



Type designation AC-VB	230-40 400-40	230-60 400-60	230-100 400-100	230-200 400-200	230-400 400-400	230-600 400-600
Mains voltage according to DIN EN 50160 (IEC 38)	220/240V ±10% 50/60Hz (standard) 380/415V ±10% 50/60Hz (standard) 200 – 690V ±10% 50/60Hz (wide voltage range)					
Power draw of the electronics	6 VA					
Recommended for rated motor currents up to	20A	30A	50A	100A	200A	300A
Rated device current	40A	60A	100A	200A	400A	600A
c.d.f. at max. braking current	20%					
I²t-Value Power semiconductor	1050A²s	4900A²s	6050A²s	80000A²s	320000A²s	1125000A²s
Braking voltage	0 ... 130VDC at 220/240V 0 ... 220VDC at 380/415V					
max. Braking time	40s with standstill-dependent braking 320s with time-dependent braking					
Contact rating of output relays	3A/250VAC; 3A/30VDC					
Delay time for reduction of residual e.m.f.	self-optimizing (200 ... 3100ms)			self-optimizing (1600 ... 3100ms)		
max. Cross-sectional area	16mm²	16mm²	16mm²	35mm²	Screw M12	
Ambient / Storage temperature	0°C ... 45°C / -25°C ... 75°C					
Weight / kg	2,1	2,1	2,1	3,1	7,2	10,2
Order number 230V	29700.23040	29700.23060	29700.23100	29700.23200	29700.23400	29700.23600
Order number 400V	29700.40040	29700.40060	29700.40100	29700.40200	29700.40400	29700.40600

Please observe supplementary sheet with dimensioning rules.

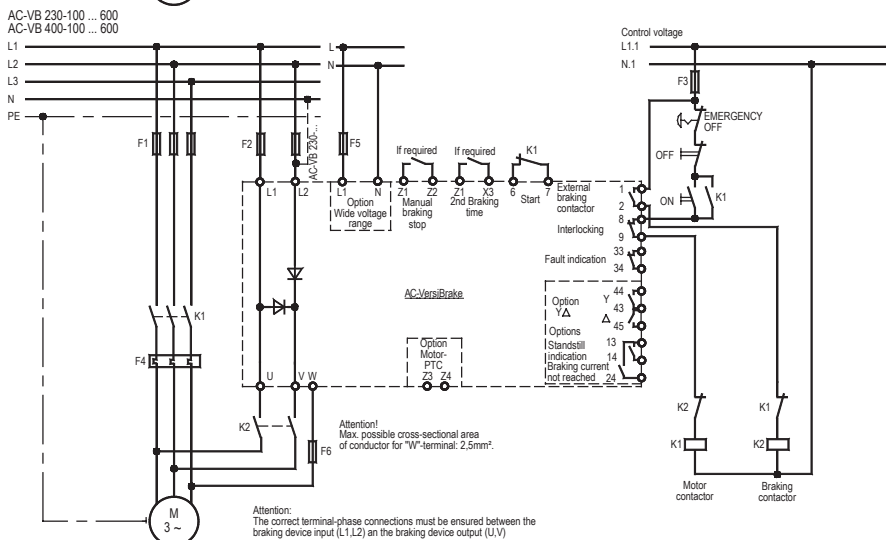
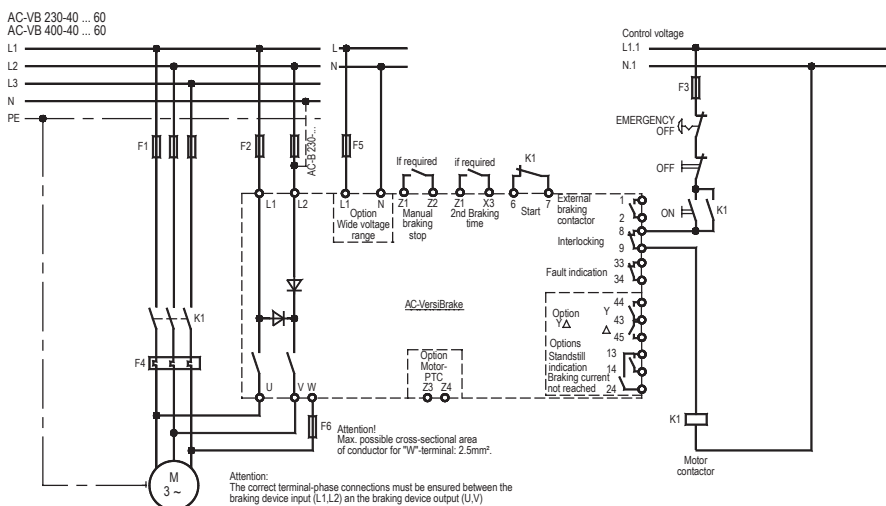
Dimensions:



	A	B	C	D	E	F
AC-VB ... -40	110	242	140	86	226	
AC-VB ... -60	110	242	140	86	226	
AC-VB ... -100	110	242	140	86	226	
AC-VB ... -200	110	255	155	80	226	
AC-VB ... -400	210	275	165	180	226	340
AC-VB ... -600	310	280	165	280	226	355

All dimensions in mm.

Connection Diagrams:



EMC
The limit values for emitted interference according to the applicable 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.

Subject to change without notice.

