

Features:

- two-phase controlled soft start
- integrated by-pass relay
- reduction of starting current peaks
- DC braking
- integrated braking contactor
- integrated standstill detection
- monitoring of stopping time
- suitable for all asynchronous motors
- suitable for IE1, IE2 and IE3 motors
- self-optimizing soft start and braking
- CANopen on board
- degree of protection IP20
- plugable push-in control terminals
- meets trad assoc. requirements for PL =c, acc. to EN13849-1:2008



Combined Motor Start and Braking Devices
VC II S 480/575 – 12 ... 60



Functions:

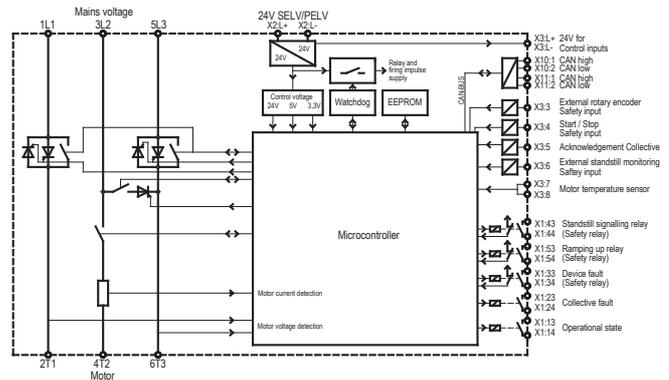
- parameterization via keypad or CAN-Bus
- motor auto tuning
- potential-free control inputs and outputs
- TVR or current controlled soft start
- motor temperature monitoring (PTC, KTY, PT1000)
- device protection
- motor protection
- tool speed monitoring (external speed sensor required)
- device fault relay (safety relevant)
- summary fault relay

Typical Applications:

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

Accessory:

- adaptor for VC II Safe 12A-37A for mounting onto DIN rail (order nr: 29000.29700)

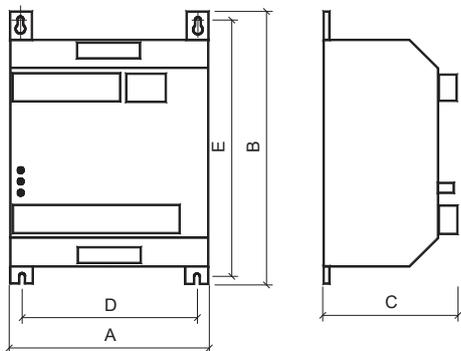


Typ designation	VC II S 480/575-12	VC II S 480/575-22	VC II S 480/575-37	VC II S 480/575-50	VC II S 480/575-60
IE3-motor rating at 400V mains voltage	1,5 – 4kW	5,5 – 7,5kW	11 – 15kW	18,5 – 22kW	25 – 30kW
motor rating at 400V mains voltage	5,5kW	11kW	18,5kW	25kW	30kW
mains / motor voltage acc. to DIN EN 50160 (IEC 38)	VC II S 480-...: 200...480V ± 10% 50/60Hz VC II S 575-...: 400...575V ± 10% 50/60Hz				
control voltage	24VDC ± 10%				
order number 480V	2C300.48012	2C300.48022	2C300.48037	2C300.48050	2C300.48060
order number 575V	2C300.57012	2C300.57022	2C300.57037	2C300.57050	2C300.57060

2.04 Combined Motor Start and Braking Devices VersiComb II Safe

Technical data	VC II S 480/575-12	VC II S 480/575-22	VC II S 480/575-37	VC II S 480/575-50	VC II S 480/575-60
mains / motor voltage acc. to DIN EN 50160 (IEC 38)	VC II S 480-...: 200...480V ± 10% 50/60Hz VC II S 575-...: 400...575V ± 10% 50/60Hz				
rated device current starting section I _e	12A	22A	37A	50A	60A
max. starting / braking current (6x I _e)	72A	132A	222A	300A	360A
IE ₃ -motor rating at 400V mains voltage	1,5 - 4kW	5,5 - 7,5kW	11 - 15kW	18,5 - 22kW	25 - 30kW
motor rating at 400V mains voltage	5,5kW	11kW	18,5kW	25kW	30kW
switching cycle per hour at tan/tbr=10s with 3x I _{Nenn} each	30				
max. power dissipation					
- during operation at max. start frequency	24W	40W	62W	81W	96W
- only control voltage	6W	6W	6W	6W	6W
I ² t ^(125°) (A ² s) - thyristors	720	9100	16200	51200	125000
starting time	self-optimizing (Default = 9s) max. 25s				
current limit starting/braking current	150...600% I _{NENN}				
max. braking time	self-optimizing (Default = 9s) max. 25s				
contact loading of output relays	4A / 250VAC, 4A / 30VDC				
max. cross-sectional area for connection	1,5mm ² push-in terminals 16mm ²		1,5mm ² screw terminals 35mm ²		
functional safety:					
DIN EN 61508	SIL 1				
DIN EN 13849	PL c				
ambient / storage temperature	0°C ... 45°C (de-rating up to 50°C) / -25°C ... 75°C				
degree of protection	IP20				
size	1	1	1	2	2
weight / kg	1,45	1,5	1,55	3,8	3,9

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:

