

Combined Motor Start and Braking Devices VersiComb II Safe 2.03

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 EN13849:2008



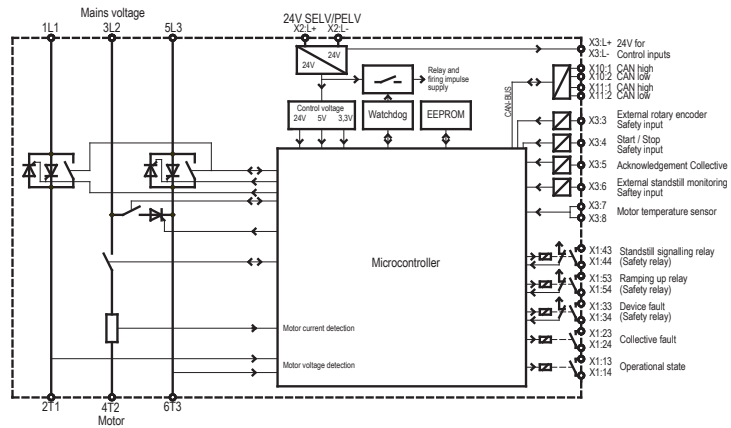
Combined Motor Start and Braking Devices
VC II S 575 – 12 ... 60
CE 

Function:

- 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)
- device temperature monitoring
- tool speed monitoring (external speed sensor required)
- device fault relay (safety relevant)
- summary fault relay

Typical Applications:

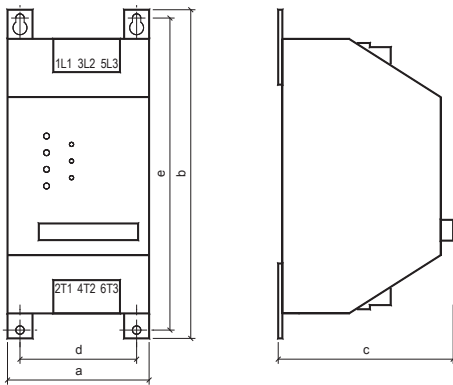
- vibrators
- wood working machines
- centrifuges
- drives with large centrifugal masses
- belt drives



Type designation	VC II S 575-12	VC II S 575-22	VC II S 575-37	VC II S 575-50	VC II S 575-60
motor rating at 400V mains voltage	5,5kW	11kW	18,5kW	25kW	30kW
motor rating at 230V mains voltage	3kW	6kW	10kW	13,45kW	16kW
mains / motor voltage acc. to DIN EN 50160 (IEC 38)	400...575V ± 10% 50/60Hz				
control voltage	24VDC ± 10%				
order number	2C300.57012	2C300.57022	2C300.57037	2C300.57050	2C300.57060

Technical data	VC II S 575-12	VC II S 575-22	VC II S 575-37	VC II S 575-50	VC II S 575-60
mains / motor voltage acc. to DIN EN 50160 (IEC 38)	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
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 _{2t} ^(125°) (A ² s) - thyristors	720	9100	16200	51200	51200
starting time	self-optimizing (Default = 9s) max. 25s				
current limit starting/braking current	200...600 I _{NENN}				
max. braking time	self-optimizing (Default = 9s) max. 25s				
contact loading of output relays	4A / 250VAC, 4A / 24VDC				
max. cross-sectional area for connection					
control terminals	1,5mm ²			1,5mm ²	
power terminals	push-in terminals 16mm ²			screw terminals 35mm ²	
functional safety: DIN EN 61508 DIN EN 13849	SIL 1 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	b	c	d	e
1	103	230	120	86	220
2	205	230	142	183	220

Connection Diagram:

