# 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 EN13849-1:2008


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

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**Function:**

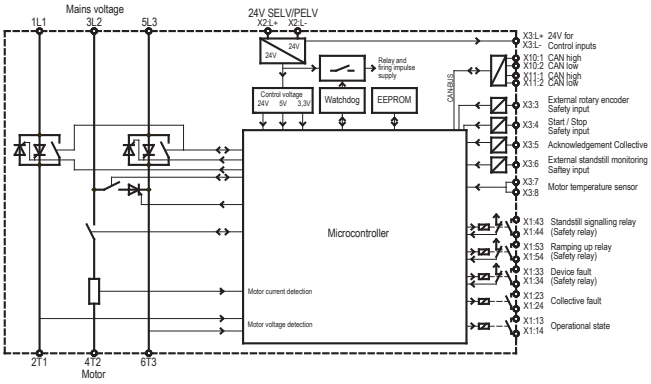
- parameterization via keypad or CAN-Bus
- motor auto tuning
- potential-free control inputs and outputs
- TVR or current controlled soft start
- motor temperature monitoring (PTC, KTY, PT1000)
- device protection
- motor protection
- tool speed monitoring (external speed sensor required)
- device fault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

**Options:** (upon request)

- wide voltage range 200-480V with external control supply voltage 24VDC

**Typical Applications:**

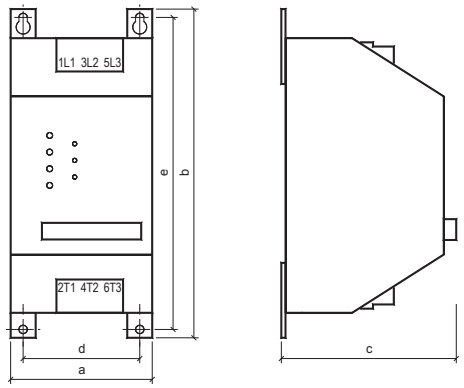
vibrators
wood working machines
centrifuges
drives with large centrifugal masses
belt drives




| Typ 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 |
|---|---|---|---|---|---|
| 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) | 400...575V ± 10% 50/60Hz | | | | |
| control voltage | 24VDC ± 10% | | | | |
| order number | 2C300.57012 | 2C300.57022 | 2C300.57037 | 2C300.57050 | 2C300.57060 |
| accessory: adaptor for VersiBrake 40A-200A and VersiComb II Safe 12A-37A for mounting onto DIN rail, order numer | 29000.29700 | | | | |
| wide voltage range (optional) | wide voltage range 200-480V with external control supply voltage 24VDC | | | | |

| 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<br>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 |
| 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 |
| switching cycle per hour<br>at tan/tbr=10s with 3x $I_{Nenn}$ each | 30 | | | | |
| max. power dissipation<br>- during operation at max. start frequency<br>- only control voltage | 24W<br>6W | 40W<br>6W | 62W<br>6W | 81W<br>6W | 96W<br>6W |
| $I^2t^{(125°)}$ ($A^2s$) - 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<br>control terminals<br>power teminals | 1,5mm²<br>push-in terminals 16mm² | | | 1,5mm²<br>screw terminals 35mm² | |
| functional safety:<br>DIN EN 61508<br>DIN EN 13849 | SIL 1<br>PL c | | | | |
| ambient / storage temperature | 0°C ... 45°C (de-rating up to 50°C) / -25°C ... 75°C | | | | |
| degree of protectionchutzart | 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:**