

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
- ☒ pluggable push-in control terminals
- ☒ meets trad assoc. requirements for PL =c, acc. to EN13849-1:2008



soft starter and dc brake
VersiComb II Safe [12 – 60A]



Function:

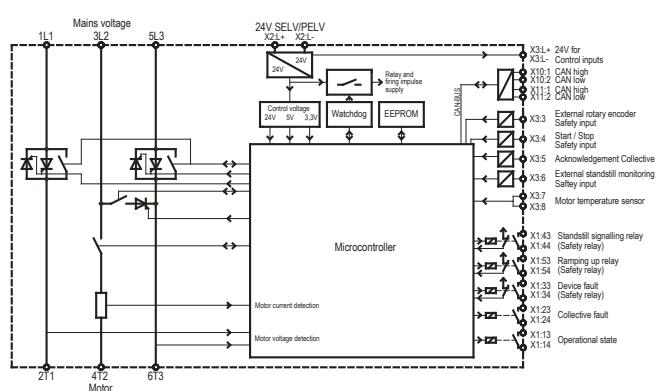
- ☒ parameterization via keypad or CAN-Bus
- ☒ motor auto tuning
- ☒ potential-free control inputs and outputs
- ☒ TVR or current controlled soft start
- ☒ motor temperature monitoring (PTC, KTY, PT1000)
- ☒ device protection
- ☒ motor protection
- ☒ tool speed monitoring (external speed sensor required)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

Typical Applications:

centrifuges, saws, milling machines, shakers
vibration machines, hydraulic presses
industrial dryers, grinding machines
edge pressing machines, deburring machines
meat grinders, mixers, other

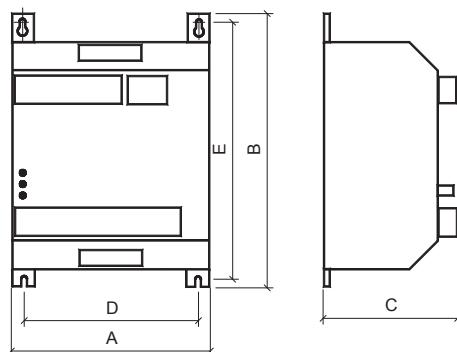
Accessory:

- ☒ adaptor for VC II Safe 12A-37A for mounting onto DIN rail (order nr: 2900.29700)



| 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 | VC II S 480....: 200...480V ± 10% 50/60Hz | | | | |
| acc. to DIN EN 50160 (IEC 38) | 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 |

| 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 |
| 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 at tan/tbr=10s with 3x I _{Nenn} each | | | 30 | | |
| max. power dissipation - during operation at max. start frequency - only control voltage | 24W 6W | 40W 6W | 62W 6W | 81W 6W | 96W 6W |
| I ² t ^(1s) (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 control terminals power terminals | | 1,5mm ² push-in terminals 16mm ² | | 1,5mm 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 (mm) | B (mm) | C (mm) | D (mm) | E (mm) |
|------|-----------|-----------|-----------|-----------|-----------|
| 1 | 103 | 230 | 138 | 86 | 220 |
| 2 | 205 | 230 | 160 | 183 | 220 |

Connection Diagram: