

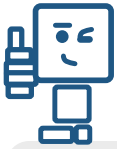
Product Group
Combined Motor Start and Braking Devices



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SIL 1
PL C





→ VBMS ... CE

Features:

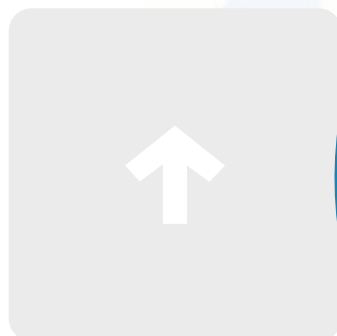
- simple motor control with only a few elements
- motor contactor and DC-brake in a single device
- suitable for all asynchronous motors
- controlled by microcontroller
- easy mounting, also for retrofitting into existing plants
- motor contactor with contact gap $\geq 3\text{mm}$, utilization category AC-3
- operator's controls physically separated from load (24V extra-low voltage)
- connection of several „STOP“ buttons possible
- for snap-mounting onto 35mm top-hat rail
- degree of protection IP 20
- meets trade assoc. requirements for category 2 acc. to GS-HO-01
- intermateable with BRMS

Functions:

- direct online start via motor contactor
- DC braking
- control via buttons or via switch
- braking current infinitely adjustable
- standstill threshold adjustable
- braking current cutoff after motor standstill
- monitoring of braking frequency (overload protection)
- monitoring of exceeded braking time of 10s
- start interlock in case of safety relevant errors

Typical Applications:

sawing machines
centrifuges
vibrators



➔ VersiComb II Safe



Features:

- two-phase controlled soft start
- integrated by-pass relay
- self-optimizing soft start and braking
- CANopen on board
- degree of protection IP 20
- plugable push-in control terminals
- functional safety: PL=c, SIL 1
- LC-Display with full text display
- IE3 ready
- Bypass and braking contactor integrated



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)
- device fault relay (safety relevant)
- summary fault relay

Functional safety:

- Safety functions meet trade assoc. requirements according to DIN EN13849-1:2008 and DIN EN 61508
- Prevention of unintentional, disturbance-induced starting
- Monitored, controlled stopping of the motor
- Door lock control
- External stand still monitoring / intelligent standstill detection



Typical Applications:

screening machines
wood working machines
centrifuges
milling machines
mixer



Our range of products:

Soft Starters

Braking Devices

Combined Motor Start and Braking Devices

Variable Speed Drives

DC-Controllers

Monitoring Modules

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