# Combined Motor Start and Braking Devices VBMS ...

#### 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
- **D** motor contactor with contact gap  $\geq$  3mm, 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 35 mm top-hat rail
- degree of protection IP 20
- meets trade assoc. requirements for category 2 acc. to EN 954-1 according to the test principles of woodworking machines GS-HO-01
- intermateable with BRMS

## Function:

- 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 (10s)
- start interlock in case of safety relevant errors

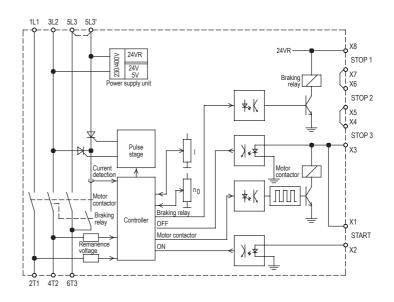


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### **Typical Applications:**

sawing machines centrifuges vibrators

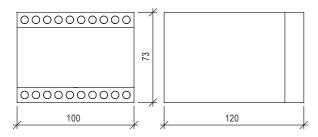


Type designation VBMS	400-2,2/20	230-1,5/20
Rated operational voltage 50/60Hz	3x 380/415V	3x 200/240V
according to DIN EN 50160 (IEC 38)	± 10%	± 10%
AC-3 Rated operational power	2,2kW	1,5kW
Conventional enclosed thermal current $I_{th} = I_e$ (motor contactor)	16A	
Braking current	220A	
max braking time	10s	
max. braking frequency at braking current 10A	at 5s braking time: 1 in 25s, at 10s braking time: 1 in 50s	
braking current 20A	at 5s braking time: 1 in 60s, at 10s braking time: 1 in 120s	
Delay time during switch-off and braking	500ms	
Braking voltage	0220V DC	0110V DC
max. cross-sectional area	2,5mm per terminal	
Weight / kg	0,6	
Ambient / Storage temperature	0°C 45°C / -25°C 75°C	
Order number	2C000.40020	2C000.23020

Please observe supplementary sheet with dimensioning rules.

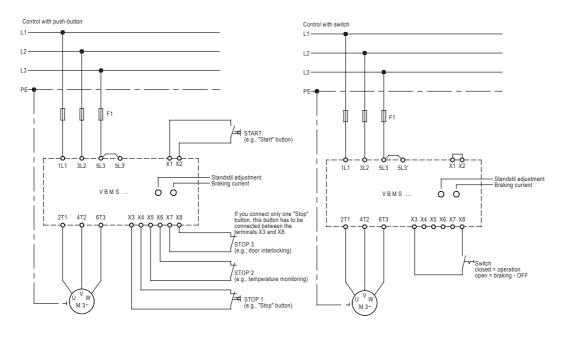
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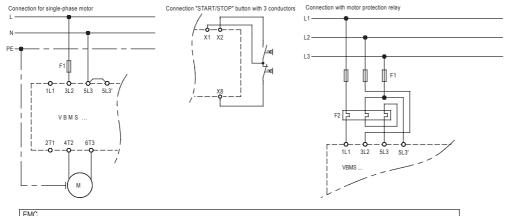
## Dimensions:



All dimensions in mm!

## **Connection Diagrams:**





EMC The limit values for emitted interference according to the applicable device standards do not rule out the possibility that the limit values according to the basic standard EN 61000-6-3:2007 are exceeded. If it is necessary to comply with the limit values of the basic standard EN 61000-6-3:2007 PETER electronic will offer appropriate solutions for the VBMS device series. In this case, please contact us. We point out that the creator of the plant / machine shall be responsible to ensure compliance with the EMC law.

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