

# B6

## COMBIVERT B6

MADE  
IN  
GERMANY



**Frequency Inverters 0.37... 4 kW**

**KEB**

# Open loop drive solution: KEB COMBIVERT B6

The entry class for open loop Frequency Inverter, for operation with asynchronous motors. Available in the power range up to **4 kW**.

## Out of the box you get an inverter that is...

- ready for connection complete with
  - integrated RFI filter to class C1/C2
  - integrated keyboard for programming, interrogation and parameter display
  - PC connection point to allow connectivity to KEB COMBIVIS V5 software

## Available in two versions...

### Analog/digital input version:

- 5 Digital inputs
- 1 Digital output
- 1 Analogue input 0...10 VDC or 4...20 mA (selectable)
- 1 Analogue output 0...10 VDC
- 1 Relay
- cage clamp connectors
- all I/O is fully programmable

### CAN - version

- 1 Digital input
- 1 Digital output
- 1 Relay output
- CAN H/ L - connections
- cage clamp connectors

## GENERAL FUNCTIONS

- 8 programmable parameter sets with PID-control, S-Curve-ramps, Power-Off-function, electronic motor protection, I<sup>2</sup>t-simulation, Fast-Digital-Input for rapid signal processing and much more
- SMM - sensorless motor management, KEB know-how on the motor shaft with optimized current-control-procedure and vector control
- adjustable switching frequency for special applications
- easy operation in the CP-parameters
- 2nd operator level for application parameters
- noiseless operation by fanless setup (design A)
- side by side mounting

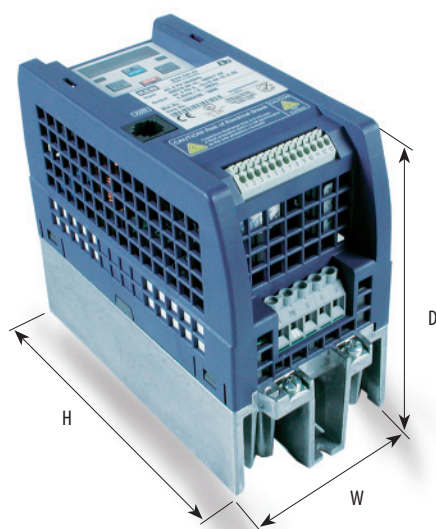
On request customized versions are available for example:

- application-oriented fieldbus-interface
- Open-Frame
- Flat-Rear heatsink



Unit size		05	07	09	10	07	09	10	12
Input rated voltage	[V]	230				400			
Mains phases		1				3			
Design		A		B		A		B	
Dimensions W x H x D	[mm]	90 x 185 x 133.5		117 x 185 x 170		90 x 185 x 148.5		117 x 185 x 170	
Output power rating	[kVA]	0.9	1.6	2.8	4.0	1.8	2.8	4.0	6.6
Max. motor power rating	[kW]	0.37	0.75	1.5	2.2	0.75	1.5	2.2	4.0
Output rated current	[A]	2.3	4.0	7.0	10.0	2.6	4.1	5.8	9.5
Max. short-time limit current	[A]	4.1	7.2	12.6	18.0	4.6	7.3	10.4	17.1
Over current tripping	[A]	4.9	8.6	15.1	21.0	5.6	8.8	12.5	21
Input rated current	[A]	4.6	8.0	14	20	3.6	6.0	8.0	13.0
Max. permissible mains fuse (slow-blow fuse)	[A]	16	16	20	25	16	16	16	20
Rated switching frequency	[kHz]	8	4	4	4	8	4	4	4
Max. switching frequency	[kHz]	8	4	16	8	8	4	8	8
Power loss at rated operation	[W]	30	55	80	100	50	80	120	150
Input voltage range U <sub>N</sub>	[V]	180...264 ±0				305...528 ±0			
Mains frequency	[Hz]	50...60 ±2							
Main type		standard		IT-Net		Δ-Net*			
Output voltage	[V]	3 x 0...U <sub>N</sub>							
Output frequency	[Hz]	0...400							
Max. motor cable length (shielded EN61800-3)									
Limit value class C2	[m]	30				30			
Limit value class C1	[m]	10 (4 kHz) / 5 (8 kHz)				-			
Protection class	[EN60529]	IP 20							
Operating temperature		-10...40 °C (14...104 °F)							
Storage temperature		-25...70 °C (-13...158 °F)							
Climatic category	[EN60721-3-3]	3K3							
Enviroment	[IEC 664-1]	Degree of pollution 2							
Vibration / shock according to...		German. Lloyd							
Internal braking transistor GTR7		-	-	✓	✓	✓	✓	✓	✓
DC link circuit (+ +/ - -)		-	-	✓	✓	-	-	✓	✓
Motor PTC-evaluation		-	-	✓	✓	-	-	✓	✓
For use in the USA									
Max. mains fuse type RK5	[A]	10	15	20	30	6	10	12	15
Max. current setting with protective motor switch	[A]	10	16	16	25	10	10	12	16

\* upon request





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