

B6

COMBIVERT B6

MADE
IN
GERMANY



Frequency Inverters 0.37... 4 kW



Open loop drive solution: **KEB COMBIVERT B6**

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

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

- Ready for connection complete with
 - Integrated RFI filter to class B
 - 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
- CAN H/ L - connections
- 1 Relay output
- Cage clamp connectors

GENERAL FUNCTIONS

- 8 programmable parameter sets with PID-control, S-Curve-ramps, Power-Off-function, electronic motor protection, I²t-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 in application parameters with extensive features in 8 parameters sets
- noiseless operation by fanless setup (design A)

On request customized versions are available for example:

- Application-oriented Bus-interface
- Open-Frame
- Flat-Rear heatsink

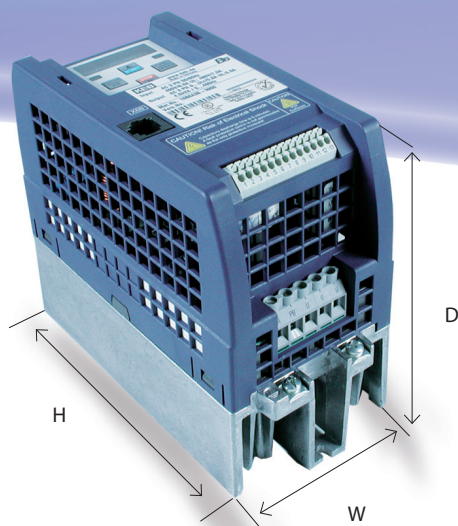
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Unit size	05	07	09	10	07	09	10	12
Input rated voltage [V]	230				400			
Mains phases	1				3			
Design	A		B		A		B	
Dimensions W x H x D [mm]	90x185x133.5		117x185x170		90x185x148.5		117x185x170	
Output power rating [kVA]	0.9	1.6	2.8	4.0	1.8	2.8	4.0	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	16	8	4	8	8
Power loss at rated operation [W]	30	55	80	100	50	80	120	150
Input voltage range U_N [V]	180...264 ±0				305...528 ±0			
Mains frequency [Hz]					50...60 ±2			
Main type	standard				IT-Net	Δ-Net*		
Output voltage [V]					$3 \times 0...U_N$			
Output frequency [Hz]					0...400			
Max. motor cable length (shielded EN61800-3)								
Limit value class C2 [m]	30		30		30			
Limit value class C1 [m]	10		5		5			
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			
Environment [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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