

B6

COMBIVERT B6

MADE
IN
GERMANY



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)
- motor-PTC-evaluation (design B)

On request customized versions are available for example:

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



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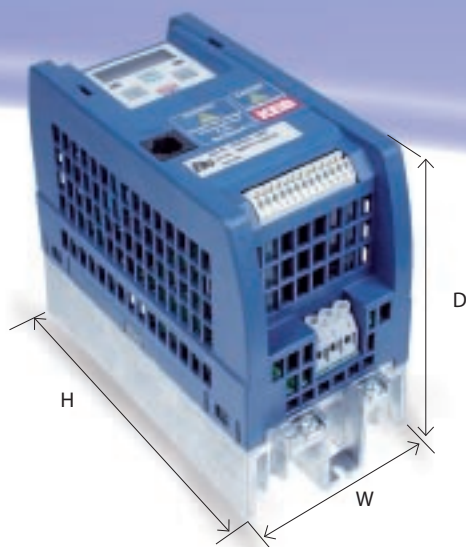
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Unit size	05	07	09	10	07	09	10	12
Input rated voltage [V]	230				400			
Mains phases	1		1*		3			
Design	A		B		A		B	
Dimensions W x H x D [mm]	90x185x133.5		117x185x170		90x185x148.5		117x185x170	
Output power rating [kVA]	0.9	1.6	2.8	4.0	1.8	2.8	4.0	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]	3.4	6.0	12.6	18.0	4.6	7.3	10.4	17.1
Over current tripping [A]	5.5	9.5	15.1	21.0	5.6	8.8	12.5	20.5
Input rated current [A]	4.6	8.0	14/10.2	20/14.6	3.6	6.0	8.0	13.0
Max. permissible mains fuse (slow-blow fuse) [A]	16	16	20/16	25/20	10	10	16	20
Rated switching frequency [kHz]	4	4	4	4	4	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	60	120	150
Mains voltage U_N [V]	180...260 ±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 A [m]	30		30		30			
Limit value class B [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	-	-	✓	✓	✓	✓	✓	✓
DC link circuit (+/-)	-	-	✓	✓	-	-	✓	✓
Motor PTC evaluation	-	-	✓	✓	-	-	✓	✓
For use in the USA								
Max. mains fuse type RK5 [A]	10	15	20/15	30/25	6	10	12	15
Max. current setting with protective motor switch [A]	10	16	20/16	25/20	10	10	12	16

* 3phases upon request

** Reduction of the safe separation on basis insulation



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