

BKD/BKF 7000

По вопросам продаж и поддержки обращайтесь:

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BKD/BKF 7000 тиристорные преобразователи до 1100 кВт



BKD/BKF 7000 - the D.C. Power Converter for applications up to 1100 kW

With its power converters series BKD/BKF 7000, Baumüller provides a significant development of our proven BKD/BKF 6000 Series of DC drives. Series BKD/BKF 7000 devices are line commutated power converters for variable-speed DC drives with powerful micro-processor-based closed loop control. Apart from their familiar high levels of reliability, the new series offers a wide range of new and enhanced functions.

The BKD/BKF 7000 replaces the existing device series and features a comprehensive selection of digital, analogue, and internally specified control values to give considerable design flexibility.

The BKD/BKF 7000 is available as a single quadrant (BKD) or four quadrant (BKF) power converter. The two variants have different designs of the armature control power unit. The BKF 7000 is rated for a wide input voltage range, between 340 V and 550 V. The armature current converter, the power supply and the field current control units are all easily adjustable.

Single-quadrant converters, BKD, are designed for typical rated currents of 30 A to 2050 A and four-quadrant power converters, BKF, being designed for 30 A to 1650 A.

Therefore, DC drives can be supplied for powers of 5 to 800 kW for four quadrant operation and up to 1100 kW for single quadrant operation.

Ease of use in operation

A powerful 16-bit processor system carries out open and closed loop control of the drive as well as communications and general signal processing. The microprocessor PCB and the electronic control boards, such as the power supply and the field unit, are of identical design for all unit sizes. The construction and incorporation of the processor PCB as a lid board allows you easy access to all the components from the unit's front panel.

The power converter's operating software and the E²PROM containing the specific data records are implemented on a plug-in module. This means that configuration data is easily transportable.

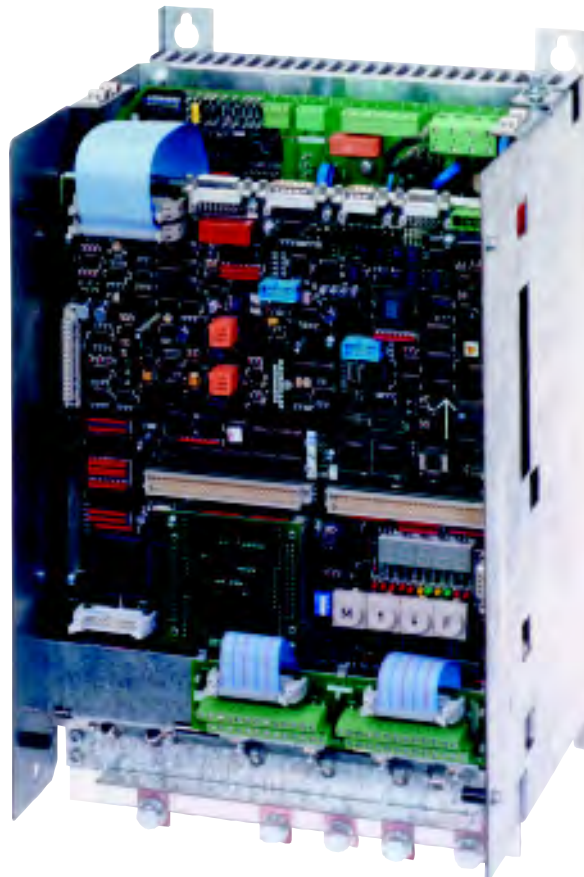
Visualised free wiring using *ALINKS*

The modular structure of the software incorporating soft-ware modules such as adders, multipliers, and PI controllers, ensures that you can freely carry out logical connections, building complex applications yet requiring little time and effort. The virtually limitless possibilities of internal connection via Baumüller's newly presented *ALINKS* is the basis of quick and easy drive configuration that is adaptable for your own particular design needs.

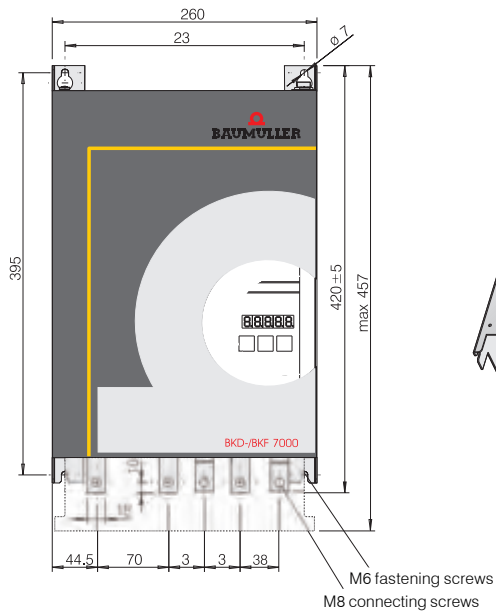
ALINKS are software links that permit internal drive "wiring" e.g. the output of a function module like a ramp function generator, the output of a PI controller or the field current controller actual value can all be connected as needed. The output from one module can act as the input signal for many other software modules. This powerful construction allows you to set up your own application-specific structure, freely inter-connecting a total of 300 points using user-friendly software. The soft-ware also permits the linking of selected functions to the drives inputs and output terminals.

You can set up the BKD/BKF quickly and easily for every application without needing to make any changes to the device hardware. This soft-ware structure avoids the need for external wiring to connect internal functions, thus giving you flexibility and reducing cost, time and effort.

The BKD/BKF 7000 series is the ideal power converter for applications such as plastic extrusion where variable speed control and high torque levels are needed.

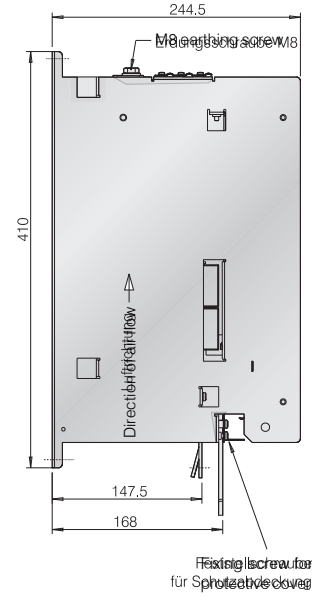
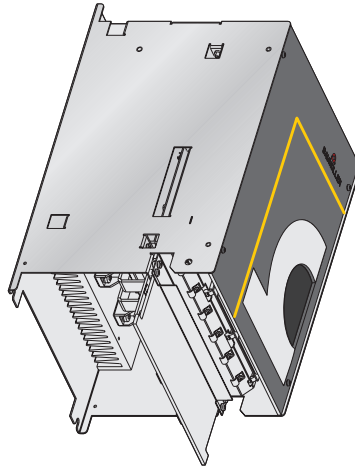


Dimensions of size l

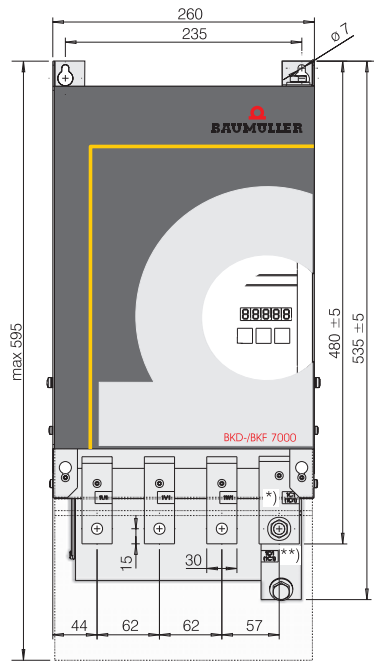


*) BKF 1C1(1D1)
BKD 1C1

**) BKF 1D1 (1C1)
BKD 1D1

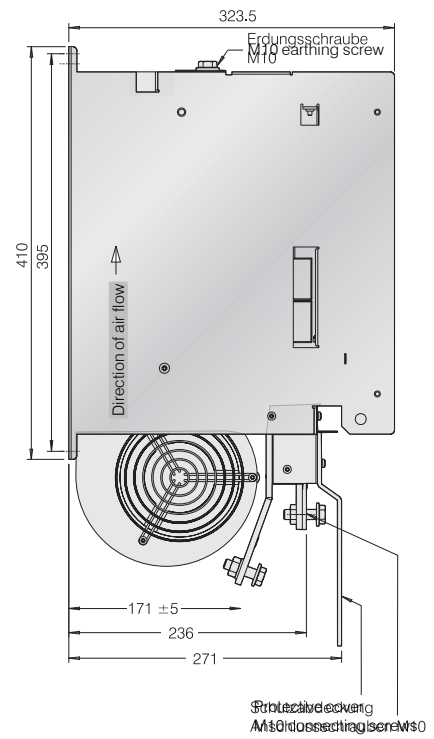
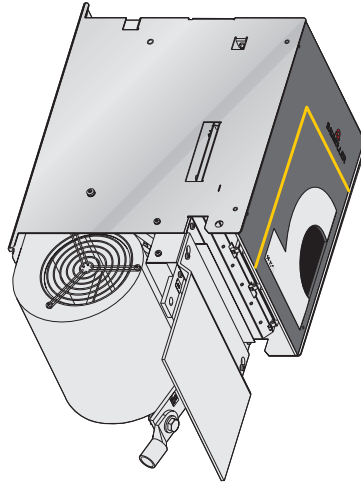


Dimensions of size II

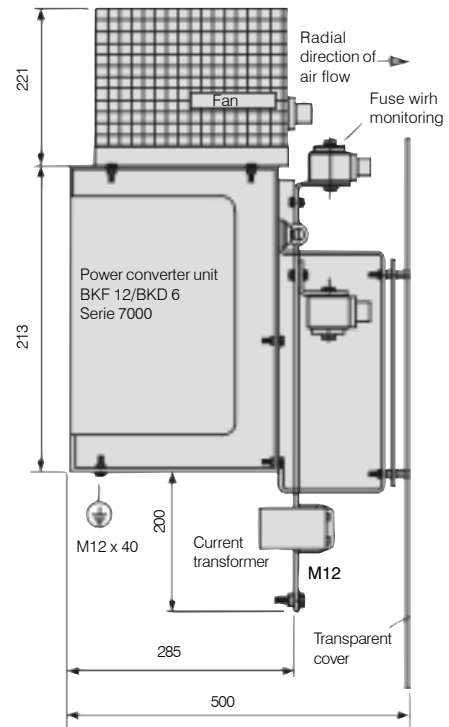
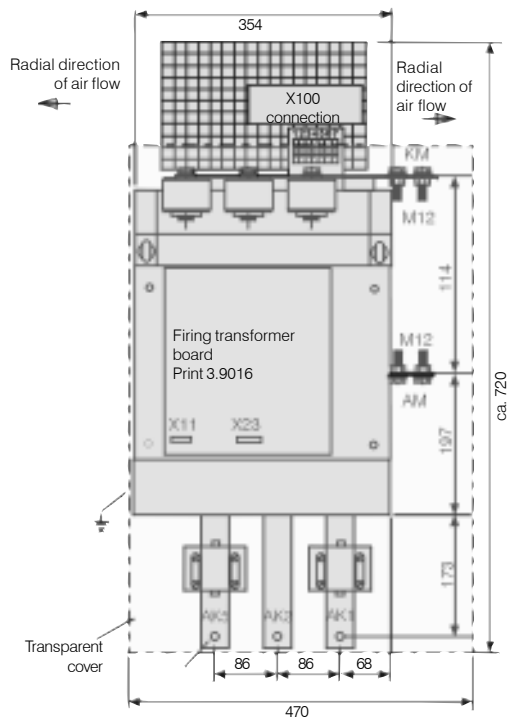


*) BKF 1C1 (1D1)
BKD 1D1

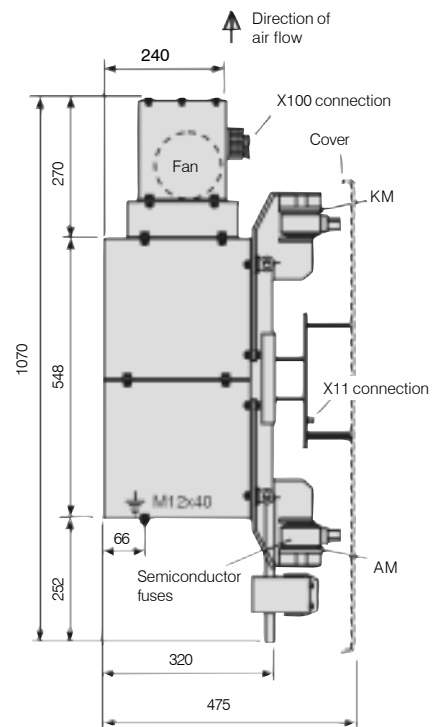
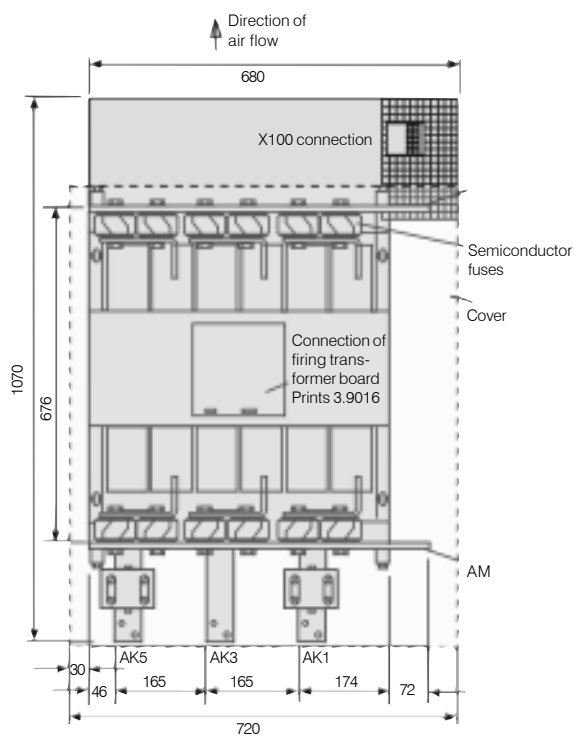
**) BKF 1D1 (1C1)
BKD 1D1



Dimensions of size III, Power unit



Dimensions of size IV, Power unit



In the case of sizes III and IV, the controller and the field supply are fitted in a housing of size I. Both components are connected via ribbon cables.

Main converter:

	BKD 6/.../7000 BKF 12/.../7000	
Connection voltage ¹⁾	340 V~ ... 550 V~	
Mains frequency	45 ... 65 Hz	
Rated DC current (acc. to DIN 40030)	Connection voltage 400 V~ ¹⁾	Connection voltage 500 V~ ¹⁾
BKF	420 V	520 V
BKD	470 V	600 V
Rated currents I_A for size I	30 A, 50 A, 80 A, 100 A, 140 A, 200 A	
Rated currents I_A for size IIa	240 A (BKF only), 340 A	
Rated currents I_A for size IIb	450 A, 650 A	
Rated currents I_A for size III ²⁾	BKD: 750 A, 920 A, 1100 A BKF: 850 A	
Rated currents I_A for size IV ²⁾	BKD: 1550 A, 1750 A, 2050 A BKF: 1250 A, 1400 A, 1650 A	
Manipulating range	0,5 ... 1,0 x I_A	
Mains unit connection voltage	340 V~ ... 550 V~	
Operating temperature range	with self-ventilation: up to 100 A units 0 ... 45 °C with forced ventilation: 140 A units and above 0 ... 40 °C Reduction of rated current by 1 % per °C Reduction of rated current by 10 % per 1000 m	
with temperatures up to 55 °C at H > 1000 m above sea level		
Storage and transportation temperature	-30 ... +70 °C	
Humidity rating acc. to DIN 40440	E or F	
Type of protection acc. to DIN 40050	IP 00	

Field current converter:

	BKD 6/.../7000 BKF 12/.../7000	
Connection voltage ¹⁾	340 V~ ... 550 V~	
Mains frequency	47 ... 63 Hz	
Rated DC current (acc. to DIN 40030)	Connection voltage 400 V~ ¹⁾	Connection voltage 500 V~ ¹⁾
	310 V	390 V
Rated DC currents of field I_E (depending on the rated current, I_A , of the controlled device)	$I_A \leq 100 \text{ A}$: 1.5 A, 3 A, 6 A, 12 A $I_A > 100 \text{ A}$: 1.5 A, 3 A, 6 A, 12 A, 24 A	
Manipulating range	0.2 ... 1.0 x I_E	

1) If supply voltages are fall by more than 10% of the rated value
it may no longer possible to achieve the rated DC current

2) In preparati



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