

The b maXX 1000 is a frequency converter that provides for the highly efficient (vector) control of standard motors in three output gradations and in the power range 0.2 kW to 11 kW.



In designing the b maXX 1000, Baumüller has focused on providing a range that is consistently easy to use. The b maXX 1000 offers an integrated EMC filter as standard, for compliance with the applicable EU standard (EN 55011A/Second Environment).

Numerous protective and overload functions, such as phase failure detection on the line and motorside, ensure error-free operation. Comprehensive control and data management constantly provides a precise overview of the current drive status.

The b maXX 1000 is also equipped for wide-ranging applications, thanks to its 15 different preset speeds. Its adjustable pulse width modulation, from 1 kHz to 15 kHz, also means that it emits barely any noise during operation.

It can achieve a rotating field frequency of between 0.1 Hz and 400 Hz, meaning that even multi-pole machines can be operated in a high speed range.

The b maXX 1000 can be connected to CANopen, the premier open fieldbus system. It is also able to work as a motion control slave, due to its integrated protocols.

### **b maXX 1000 - Highly efficient, easy to operate frequency converter**

frame size 3



frame size 2



frame size 1



Comprehensive protective functions: overvoltage and undervoltage protection, ensuring that the device cannot be destroyed; ground-fault, short-circuit, overload, and no-load protection, ensuring that the motor is protected effectively; protection against overheating  
 Adjustable PWM frequency, 1 kHz to 15 kHz – for extremely quiet machine operation  
 Intelligent output current monitoring  
 Automatic energy-saving function – reduces cost of ownership  
 Auto tuning – improved setup conditions

- Automatic slip tracking – always provides optimum efficiency
- Starting torque up to 150% – simple compensation for high breakaway torques
- PID control – fast response to perturbation, constant speed
- 15 preset speeds – for optimum speed range

- S-curve function for accelerating and decelerating – soft starting is better for your mechanical systems
- Detachable keypad available as an option

Frame size	Type	IN [A]	Imax [A]	typ. motor rating		overload factor 3)	Dimensions WxHxD 4) [mm]
				[kW]	[hp]		
1	1211 1)	1,6	2,4	0,2	0,27	1,5	72 x 142 x 152
1	1212 1)	2,5	3,75	0,4	0,54	1,5	72 x 142 x 152
1	1213 1)	4,2	6,3	0,75	1,0	1,5	72 x 142 x 152
1	1412 2)	1,5	2,25	0,4	0,54	1,5	72 x 142 x 152
1	1413 2)	2,5	3,75	0,75	1,0	1,5	72 x 142 x 152
1	1414 2)	4,2	6,3	1,5	2,0	1,5	72 x 142 x 152
2	1224 1)	7,5	11,25	1,5	2,0	1,5	100 x 174 x 152
2	1225 1)	11,0	16,5	2,2	3,0	1,5	100 x 174 x 152
2	1425 2)	5,5	8,25	2,2	3,0	1,5	100 x 174 x 152
2	1426 2)	8,2	12,3	3,7	5,0	1,5	100 x 174 x 152
3	1437 2)	13,0	19,5	5,5	7,4	1,5	130 x 260 x 160
3	1438 2)	18,0	27,0	7,5	10,0	1,5	130 x 260 x 160
3	1439 2)	24,0	36,0	11,0	14,8	1,5	130 x 260 x 160

Supply voltage: 100-120 V +/- 10% (TN-, TT-, IT mains)    Adjustable frequency: 0.1-400 Hz  
 200-240 V +/- 10% (TN-, TT-, IT mains)    Electronic supply: External 24 V DC  
 380-480 V +/- 10% (TN-, TT-, IT mains)    Type of protection: IP20

Supply frequency: 47-63 Hz

Operating temperature: -10 °C up to 50 °C (to 40 °C if adding)

Clock frequency: 1-15 kHz

**Subject to change**

1) Single phase 230 V 2) Three phase 400 V

3) for 60 seconds 4) Height and depth with mounting brackets; depth without required bending radius of connecting cables.