

The servo inverter b maXX 3400 was designed for low power ratings up to 4 kW. With the new series of dynamic DSD servomotors in frame sizes 28 to 100 and the linear motors, Baumüller offers a complete system for low power ratings that are ideal, above all, for applications in the packaging and textile industries, small-scale robotics or handling.



b maXX 3400 excels through its compact, space-saving design. The braking resistor and line filter are integrated and, as a result, cost-intensive external circuit elements are no longer required.

The field-oriented control provides for excellent concentricity. Higher-level speed and position control ensure dynamic and exact positioning.

The b maXX 3400 is compatible with the b maXX 4000 servo controllers in terms of handling, communication, parameter structure, main functionality and operation. Parameters are assigned to the b maXX 3400 via ProDrive.

Given that the controller is very compact and was designed with a central focus on economic efficiency, the b maXX 3400 is ideal for applications in handling and robotics as well as for applications in the printing, textile and packaging industries.

The servo controller is specifically designed for operation with the new DSD 28 - 100 servomotors and the pancake and linear motor series from Baumüller.



The highly dynamic control of the b maXX 3400 in connection with the highly dynamic mini servomotors of the DSD series increases the clock speed of the application and therefore also improves the production output of machines and systems.

The high chopping frequency reduces noise emission and therefore relieves the burden on

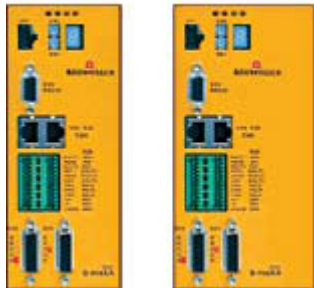
the environment.

b maXX 3400 - versatile mini servo controller

The following control types are available for synchronous machines:

frame size 0

frame size 1



- current control (sampling times 62.5 μs)
- speed control (sampling times 125 μs)
- position control (sampling times 125 μs)
- jogging mode
- referencing

Functions:

- 230 V mains supply voltage or 400 V mains supply voltage
- Chopping frequency 4 / 8 / 16 kHz
- integrated ballast transistor
- integrated ballast resistor (frame size 0 and 1)
- external 24 Volt supply
- 2 encoder inputs
- digital I/Os 24 V / 0,5 A; 4 In; 4 Out
- analog I/Os ± 10 V; 1 In (12 Bit) AD-converter; 2 Out (10 Bit) via PWM
- 8 parameter data records
- 16 position data records
- CANopen / CANsync on board



Options:

- 2 fast digital input (250 μs)
- Software option cam disc function
- Software option 2-point-controller
- Incremental encoder emulation
- Safety relay
- EtherCAT slave CoE

Encoder types:

- SINCOS absolute encoder (single-/multiturn)
- SINCOS incremental encoder
- Resolver (2-polig)
- Incremental encoder TTL

Mains supply voltage range 110 V-243 V, single-phase, rated mains supply voltage 230 V

Frame size	Type	IN [A]	Imax [A]	typ. motor rating		Max. p current
				[kW]	[hp]	
0	3401-L1OBO	4,3	8,1	1,0	1,34	2,3 s

data applies for 4 kHz chopping frequency

Mains supply voltage range 207 V-528 V three-phase, rated mains supply voltage 400 V

Frame	Type	IN	Imax	typ. motor rating	Max. p
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size		[A]	[A]	[kW]	[hp]	current time	WxHxD
1	3411-L3OBO	5,5	10,5	2,5	3,35	7,4 s	85 x 17
1	3411-L3OOO	8,0	10,5	3,7	4,96	29 s	85 x 17

data applies for 4 kHz chopping frequency

Supply frequency: 50/60 Hz
Chopping frequency: 4/8/16 kHz
Output voltage 0-85% (single-phase)
0-95% (three-phase) of supply voltage
Electronics supply external 24 V DC
1) without mounting brackets
B = braking resistor internal; 0 = braking resistor external
Subject to alteration