

## b maXX 2400 Mini servo controller up to 2 kW

b maXX 2430

b maXX 2415

b maXX 2410

b maXX 2405



CANopen

EtherCAT

PROFIBUS

Modbus

The b maXX 2400, in combination with the servo motors DSD2 28–36 and the disc motors of Baumüller forms a powerful compact system for industrial applications such as handling, packaging and robotics as well as for mobile applications for warehousing and logistics.

The mini servo controller with integrated intelligence supports the fieldbuses CANopen, EtherCAT, PROFIBUS and Modbus and can thus be flexibly integrated into networked drive structures.

## b maXX 2400 – compact mini servo controller

- ⊙ Compact servo controller with integrated MPU (Motion Process Unit)
- ⊙ Support of the fieldbus systems: CANopen, EtherCAT, PROFIBUS, Modbus
- ⊙ Applicable for drive systems with supply voltage 9 to 60 VDC
- ⊙ Suitable for use with BLDC and DC motors with closed-loop control and for DC motors in speed control mode with open-loop control
- ⊙ The servo controller is freely programmable
- ⊙ Optional operating modes include: Positioning control, 4Q-speed controller or current controller
- ⊙ Positioning controller (sampling time 2000 ms), speed controller (sampling time 250 ms), current controller (sampling time 125 ms)
- ⊙ Protection functions: overvoltage, under voltage and over temperature monitoring
- ⊙ LED-display for Power, Status, Error
- ⊙ The controllers have digital inputs and outputs and at least one analogue input
- ⊙ The integrated MPU is freely programmable up to 1500 lines in Python script
- ⊙ The programming of the inputs and outputs in the MPU enable following functionalities: SPS, brake control, analogue setpoint value, selectable reference travel modes
- ⊙ All connections are plug-in
- ⊙ Options: CAN-adaptor USB for parameterization and programming, external ballast module with integrated ballast resistor
- ⊙ Possibility of remote diagnosis



### Technical data b maXX 2400

Type	Frame size	$I_N$ [A]	$I_{MAX}$ [A]	typ. motor rating		Supply voltage electronics $U_e$ [VDC]	Supply voltage performance $U_p$ [VDC]	Dimensions <sup>1)</sup> WxHxD [mm]
				[kW]	[hp]			
2405	1	5	15	0.2	0.26	9 ... 30	9 ... 60	45.5 x 74 x 14 <sup>2)</sup>
2410	2	10	50	0.4	0.53	9 ... 30	9 ... 60	22.5 x 77 x 110 <sup>2)</sup>
2415	2	15	50	0.65	0.86	9 ... 30	9 ... 60	40 x 77 x 110 <sup>3)</sup>
2430	3	30	100	1.2	1.60	9 ... 30	9 ... 60	30 x 100 x 111 <sup>2)</sup>

Type	Frame size	Digital inputs #	Digital outputs #	Continuous output current [A]	Analog inputs #, type
2405	1	3	1	2.5	1 ± 10 V; differential
2410	2	8	2	2.5	1 ± 10 V; differential + single ended
2415	2	8	2	2.5	1 ± 10 V; differential + single ended
2430	3	8	2	2.5	1 ± 10 V; differential + single ended

Chopping frequency: 16 kHz

Output voltage: 0–100% of supply voltage

1) The housing dimensions vary according to the additional fieldbus modules

2) Dimensions without cooling-element, connector or additional fieldbus modules

3) Dimensions with cooling-element but without connector or additional fieldbus modules

**Subject to alteration**