



**SEW**  
**EURODRIVE**

SEW-EURODRIVE GmbH & Co KG  
P.O. Box 3023  
76642 Bruchsal/Germany  
Phone +49 7251 75-0  
Fax +49 7251-1970  
sew@sew-eurodrive.com

→ [www.sew-eurodrive.com](http://www.sew-eurodrive.com)

## Revision



## MOVIAxis® Multi-Axis Servo Inverters

## 1 Revisions



### INFORMATION

This document describes the revisions made to the "MOVIAXIS® Multi-Axis Servo Inverters" operating instructions.

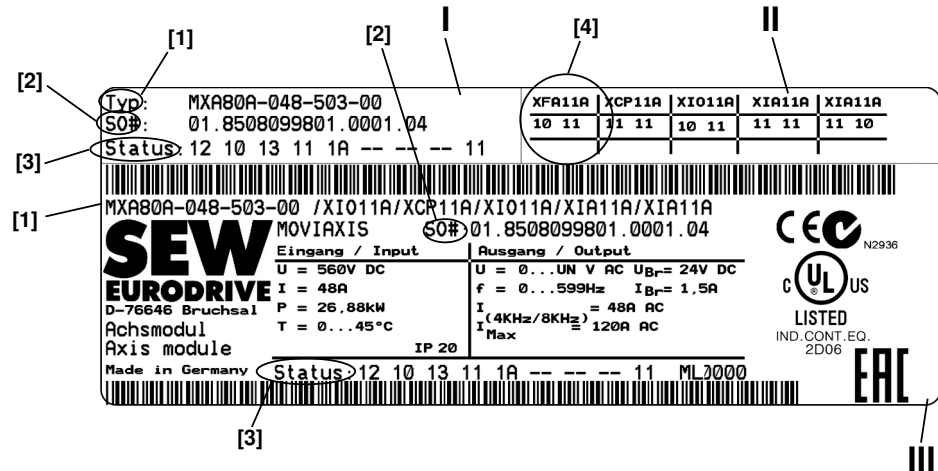
Please use the data specified in this revision. This document does not replace the detailed operating instructions.

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## 2 Nameplates and type designations

### 2.1 Axis module nameplate

The following figure shows the nameplate of the axis module:



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- I Part "I" of the nameplate: Located on the upper fastening plate of the module [1] Type designation
- II Part "II" of the nameplate: Located on the upper fastening plate of the module [2] Production number
- III Part "III" of the nameplate: Located on the side of the module housing [3] Status
- [4] Communication slots, firmware status

## 3 Markings, UL approval

MOVIAXIS® MX multi-axis servo inverters meet the following directives and guidelines:

### 3.1 CE marking

- Low-Voltage Directive 2006/95/EC.
- Electromagnetic Compatibility 2004/108/EC.

Servo inverters and MOVIAXIS® power supply modules are components intended for installation in machines and systems. They comply with the EMC product standard EN 61800-3 "Adjustable speed electrical power drives". Provided the installation instructions are complied with, they satisfy the relevant requirements for the CE marking for the entire machine/system in which they are installed, on the basis of the EMC Directive 2004/108/EC.

- Compliance with limit class "C2" according to EN 61800-3 has been tested on a specified test setup. SEW-EURODRIVE can provide detailed information on request.



The CE mark on the nameplate indicates conformity with the Low Voltage Directive 2006/95/EC and the EMC Directive 2004/108/EC. We can provide a declaration of conformity on request.

### 3.2 EAC marking



The MOVIAXIS® product series meets the requirements of the technical regulations of the customs union of Russia, Kazakhstan, and Belarus.

The EAC mark on the nameplate certifies compliance with the safety requirements of the customs union.

## 4 Technical data of MXA axis modules

### 4.1 Axis module power section

MOVIAXIS® axis module MXA8.A-...-503-0.	1)	2)	Size										
			1			2		3		4	5	6	
Type			002	004	008	012	016	024	032 <sup>3)</sup>	048	064	100	
INPUT (DC link)													
Nominal DC link voltage $V_{NDCL}$	U	V	DC 560										
Nominal DC link current $I_{NDCL}$ <sup>4)</sup>	I	A	2	4	8	12	16	24	32	48	64	100	
Cross section <sup>5)</sup> and contacts		mm	CU bars 3 × 14 mm, M6 screw fitting										
OUTPUT													
Output voltage V	U	V	0 – max. $V_{line}$										
Continuous output current AC $I_N$ PWM = 4 kHz <sup>6)</sup>	I	A	2	4	8	12	16	32	42 <sup>7)</sup>	64	85	133	
Continuous output current AC $I_N$ PWM = 8 kHz <sup>6)</sup>	I	A	2	4	8	12	16	24	32	48	64	100	
Continuous output current AC $I_N$ PWM = 16 kHz <sup>6)</sup>	I	A	1.5	3	5	8	11	13	18	—	—	—	
Max. unit output current $I_{max}$ <sup>8)</sup>	$I_{max}$	A	5	10	20	30	40	60	80	120	160	250	
Overload capacity for max. 1 s			250%										
Apparent output power $S_{NOut}$ <sup>9)</sup>	S	kVA	1.4	2.8	5.5	8.5	11	17	22	33	44	69	
PWM frequency $f_{PWM}$		kHz	Adjustable: 4/8/16; setting on delivery: $f_{PWM}$ =8 kHz										
Max. output frequency $f_{max}$	f	Hz	599										
Cross section and contacts of motor connections		mm <sup>2</sup>	COMBICON PC4 Pluggable, max. 4				COMBICON PC16 Pluggable, max. 10			Screw bolts M6 max. 35		Screw bolts M8 max. 70	
Cross section and contacts on motor shield terminal		mm <sup>2</sup>	Max. 4 × 4				Max. 4 × 10			Max. 4 × 35		Max. 4 × 50	
Brake connection	$U_{BR}/I_{BR}$	V / A	1 digital output brake control Suitable for direct operation of brake, short-circuit proof. External 24 V required. <b>See example for maximum load below the footnotes.</b> Signal level: "0" = 0 V "1" = +24 V <b>Important:</b> Do not apply external voltage! Function: "/Brake" fixedly assigned										
Brake connection contacts		mm <sup>2</sup>	COMBICON 5.08 One core per terminal: 0.20 – 1.5 mm <sup>2</sup> Two cores per terminal: 0.25 – 1.5 mm <sup>2</sup>										
Shield terminals			Shield clamps for brake lines available										
Maximum cable cross section that can be connected to the shield terminal			10 mm (with insulating sheath)										
GENERAL INFORMATION													
Power loss at nominal capacity		W	30	60	100	150	210	280	380	450	670	1100	
Weight		kg	4.2	4.2	4.2	5.2	5.2	9.2	9.2	9.2	15.6	15.6	
		mm	60			90		90		120	150	210	
Dimensions: H		mm	300			300		400		400	400	400	
		mm	254										

1) Information on the nameplate

2) Unit

3) For a 32 A axis in line with UL and with a PWM of 4 kHz, the maximum permitted continuous output current is 35 A.

4) with simplification:  $I_{NDCL} = I_N$  (typical motor application)

5) Material thickness [mm] × width [mm]

6) The output currents must be reduced by 20% from the nominal values for V line = 3 × AC 500 V

7) For a 32 A axis in line with UL and with a PWM of 4 kHz, the maximum permitted continuous output current is 35 A.

8) Indicated values apply to motoring operation. The same peak power is provided for motoring and regenerative operation.

9) Applies to a line voltage of 400 V and 50 Hz / PWM = 8 kHz.