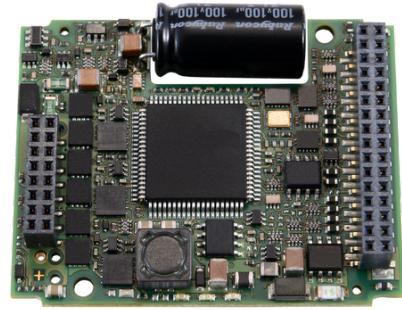


# Servo amplifier

## mcDSA-S60-Modul

Article number: 1505046



Picture similar

**Technical data**

Power	
Electronic supply voltage Ue	9..30 V
Electronic current consumption@ Ue=24V* <sup>1</sup>	typ. 30 mA
Power supply voltage Up	9..60 V
Max. output current	10 A
Continuous output current @ Up=24V* <sup>2</sup>	3.5 A
Continuous output current @ Up=48V* <sup>3</sup>	3 A
PWM	
Output voltage	85% Up
PWM frequency	25, 32, 50* <sup>4</sup> kHz
Mechanical	
Size LxWxH	53 x 41 x 10 mm
Weight	18 g
Environment	
Protection class	IP00
Ambient temperature (operation)	-40..70 °C
Ambient temperature (storage)	-40..85 °C
Rel. humidity (non-condensing)	5..90 %
CAN bus	
Protocol	DS301
Device profile	DS402
Max. baudrate	1 Mbit/s
CAN specification	2.0B
Galvanically isolated	no
Digital inputs	
Number	4 (Din0..3)
Low voltage	-30..5 V
High voltage	6..30 V

Analog Inputs	
Number	2 (Ain0..1)
Signal type - Ain	0..10 V, 12 Bit, single ended

\*<sup>1</sup> power amplifier switched off, 5V output (sensor supply) is free\*<sup>2</sup> connector cable with max. possible cable cross-section, PWM frequency 32 kHz, ambient temperature 40 °C (t >40 °C derating), RMS current: 3.5 A → 2.9 Aeff, 3 A → 2.4 Aeff

no guarantee, since value is determined empirical, please consider the application notes to determine the continuous current

\*<sup>3</sup> connector cable with max. possible cable cross-section, PWM frequency 32 kHz, ambient temperature 40 °C (t >40 °C derating), RMS current: 3.3 A → 2.9 Aeff, 3 A → 2.4 Aeff

no guarantee, since value is determined empirical, please consider the application notes to determine the continuous current

\*<sup>4</sup> default value

Additional technical data are available in mcManual.



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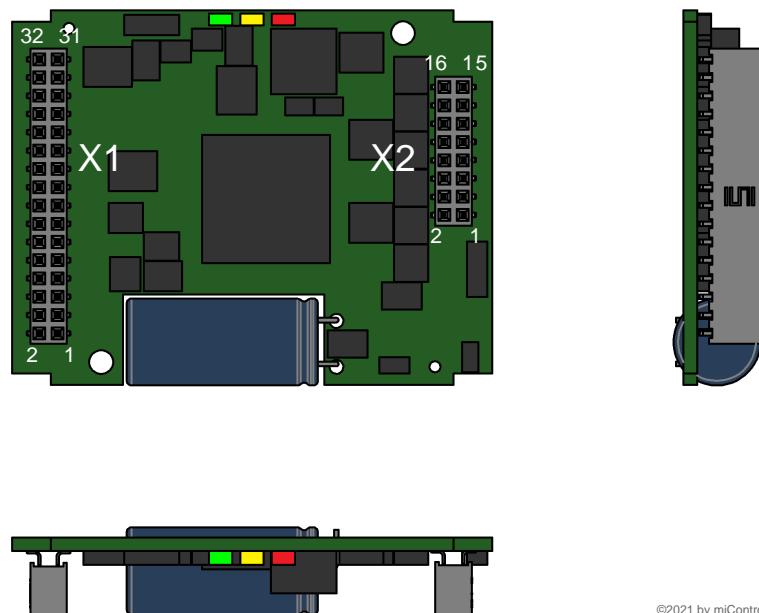
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mcDSA-S60-Modul - PV1.11.00.00 / DV1.00.00.05

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## Scheme



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## Terminal assignment

X1	I/O's and CAN
1	res.
2	/Id7
3	+U5V
4	/Id6
5	res.
6	/Id5
7	res.
8	/Id4
9	res.
10	/Id3
11	res.
12	/Id2
13	res.
14	/Id1
15	CAN Lo
16	/Id0
17	CAN Hi
18	Erw2
19	res.
20	Erw1
21	Din2
22	SpiCLK
23	Din1
24	SpiMOSI
25	Din0
26	Spi/SS
27	Ain0
28	SpiMISO
29	Ain1
30	Din3
31	GND
32	res.

X2	Motor
1	+Up
2	res.
3	+Up
4	res.
5	GND
6	GND
7	Ma
8	+Ue
9	Ma
10	+Ue
11	Mb
12	Mb
13	Mc
14	Md
15	Mc
16	Md