

Servo amplifier

mcDSA-E61-Modul

Article number: 1505014



Picture similar

Technical data

Absolute maximum rating (destruction limits)		Auxiliary voltage
Power supply voltage Up no polarity reversal protection	80 V	Output voltage 5 V
Continuous Electronic supply voltage Ue no polarity reversal protection	33 V	Max. output current 0.2 A
Short term peak voltage < 1s Ue no polarity reversal protection	37 V	
Power		Encoder
Electronic supply voltage Ue	9..30 V	Type magnetic sensor
Electronic current consumption@ Ue=24V*1	typ. 25 mA	Signals A, B, Inx channels internally
Power supply voltage Up	9..60 V	Resolution 12 bit per motor shaft revolution
Max. output current	15 A	Signal type Magnetic sensor with magnet on the motor shaft
Continuous output current @ Up=24V*2	5 A	
Continuous output current @ Up=48V*2	4.3 A	
PWM		Digital inputs
Output voltage	90% Up	Number - digital inputs 4 (Din0..3)
PWM frequency	25, 32*3, 50 kHz	Low voltage 0.5 V
		High voltage 8..30 V
Mechanical		Digital outputs
Size LxWxH	53 x 41 x 10 mm	Number 1 (Dout0)
Weight	18 g	Continuous output current 1.5 A
Environment		Load resistive, inductive
Protection class	IP00	Output voltage Electronic supply voltage Ue
Ambient temperature (operation)	-40..70 °C	Signal type positive switching
Ambient temperature (storage)	-40..85 °C	
Rel. humidity (non-condensing)	5..90 %	
Analog inputs		Analog inputs
Protocol	DS301	Number 2 (Ain0..1)
Device profile	DS402	Signal type - Ain 0..10 V, 12 Bit, single ended
Max. baudrate	1 Mbit/s	
CAN specification	2.0B	
Galvanically isolated	no	

*1 power amplifier switched off, 5V output (sensor supply) is free

*2 connector cable with max. possible cable cross-section, PWM frequency 32 kHz, ambient temperature 40 °C (t >40 °C derating), RMS current: 5 A → 4.1 Aeff, 4.3 A → 3.5 Aeff

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

*3 default value

Additional technical data are available in mcManual.



miControl® GmbH

Chausseestraße 34

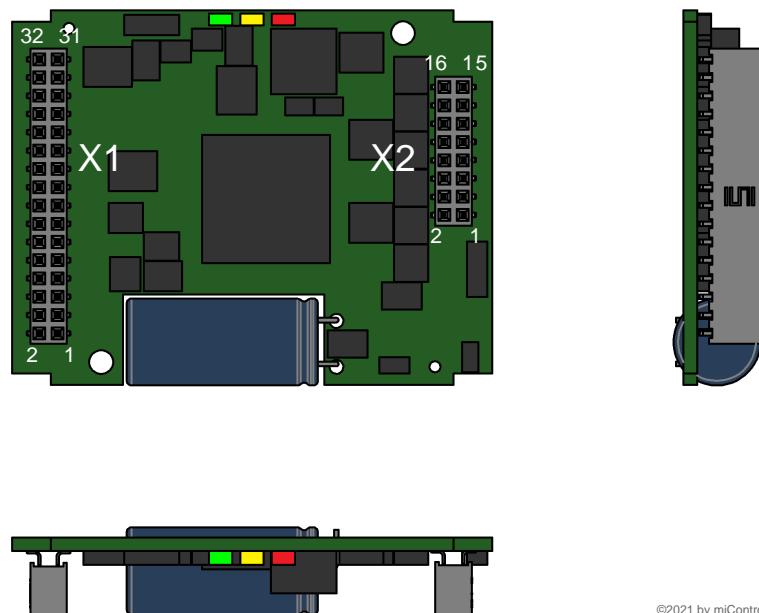
14979 Großbeeren (bei Berlin)

Copyright 2023 by miControl® - Modifications and errors excepted

mcDSA-E61-Modul - PV1.11.00.00 / DV1.00.00.06

Web: www.miControl.de e-mail: info@miControl.de Tel.: +49 (3379) 312 59-0 Fax: +49 (3379) 312 59-19

Scheme



©2021 by miControl

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	Dout0
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	res.
15	Mc
16	res.