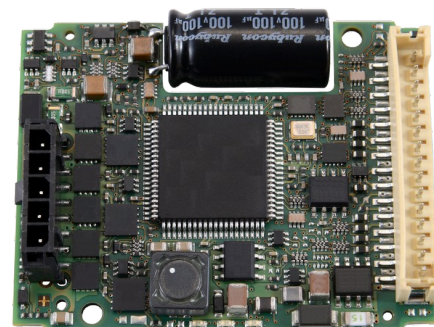


Servo amplifier

mcDSA-E61-Lp

Article number: 1511662



Picture similar

Technical data

Absolute maximum rating (destruction limits)	
Power supply voltage Up no polarity reversal protection	80 V
Continuous Electronic supply voltage Ue no polarity reversal protection	33 V
Short term peak voltage < 1s Ue no polarity reversal protection	37 V
Power	
Electronic supply voltage Ue	9..30 V
Electronic current consumption @ Ue=24V*1	typ. 30 mA
Power supply voltage Up	9..60 V
Max. output current	15 A
Continuous output current @ Up=24V*2	5 A
Continuous output current @ Up=48V*2	4.3 A
Output voltage	90% Up
PWM frequency	25, 32*3, 50 kHz
Mechanical	
Size LxWxH	52.5 x 41 x 11 mm
Weight	18 g
Environment	
Protection class	IP00
Operating temperature	-25..55 °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

Auxiliary voltage	
Output voltage	5 V
Max. output current	0.2 A
Encoder	
Type	magnetic sensor
Signals	A, B, Inx channels internally
Resolution	12 bit per motor shaft revolution kHz
Signal type	Magnetic sensor for magnet on the motor shaft
Digital inputs	
Number (+/-30V tolerant)	2 (Din0..1)
Number (0..30V tolerant) Notice: Din2 parallel with Dout0*4	1 (Din2)
Low voltage	0..5 V
High voltage	8..30 V
Digital outputs	
Number Notice: Dout0 parallel with Din2	1 (Dout0)
Continuous output current	1.5 A
Load	resistive, inductive
Output voltage	Electronic supply voltage Ue
Signal type	positive switching
Analog inputs	
Number	1 (Ain0)
Signal type	0..10 V, 12 Bit, single ended

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

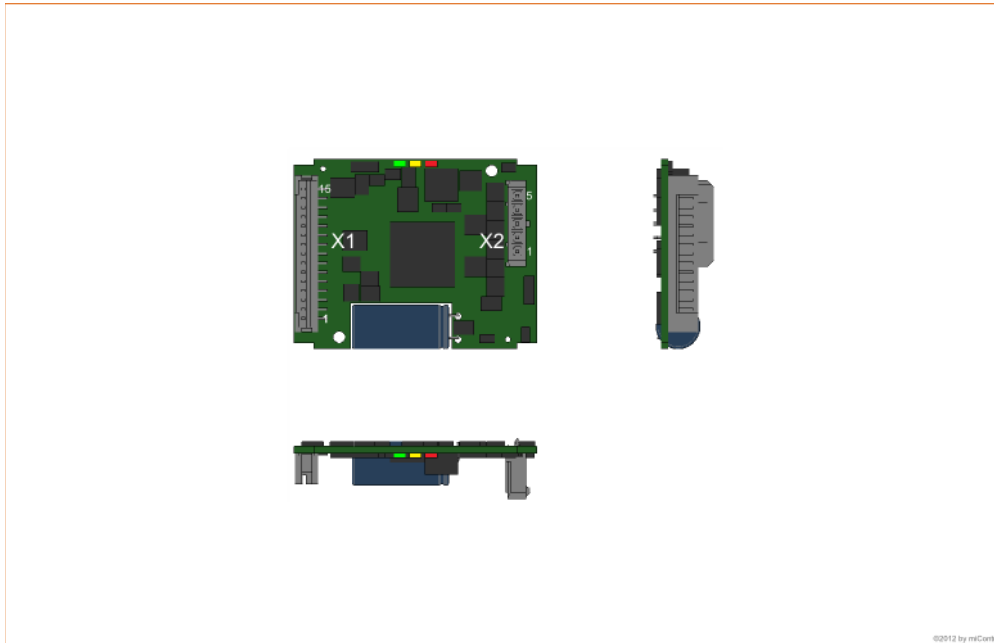
*3 default value

*4 Input voltage must not exceed Electronic supply voltage Ue

Additional technical data are available in mcManual.



Scheme



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Terminal assignment

X1 I/O's and CAN		
1	GND	Ground of the auxiliary voltage Notice: don't connect with system GND
2	+U5V	5V output voltage (auxiliary voltage)
3	res.	Reserved
4	res.	Reserved
5	res.	Reserved
6	res.	Reserved
7	res.	Reserved
8	CAN Lo	CAN Low
9	CAN Hi	CAN High
10	Din2/Dout0	Digital input 2 / Digital output 0
11	Din1	Digital input 1
12	Din0	Digital input 0
13	Ain0	Analog input 0
14	GND	Ground for electronic supply voltage
15	+Ue	Electronic supply voltage
X2 Motor		
1	+Up	Power supply voltage
2	GND	Ground for power supply voltage
3	Ma	Motor phase A
4	Mb	Motor phase B
5	Mc	Motor phase C