

Servo amplifier

mcDSA-E61-Lp

Article number: 1511662



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	Encoder
Power		Type magnetic sensor
Electronic supply voltage Ue	9..30 V	Signals A, B, Inx channels internally
Electronic current consumption@ Ue=24V*1	typ. 30 mA	Resolution 12 bit per motor shaft revolution
Power supply voltage Up	9..60 V	Signal type Magnetic sensor with magnet on the motor shaft
Max. output current	15 A	Digital inputs
Continuous output current @ Up=24V*2	5 A	Number (+/-30V tolerant) 2 (Din0..1)
Continuous output current @ Up=48V*2	4.3 A	Number (0..30V tolerant) 1 (Din2)
PWM		Low voltage 0.5 V
Output voltage	90% Up	High voltage 8..30 V
PWM frequency	25, 32*3, 50 kHz	Notice Din2 parallel with Dout0*4
Mechanical		Digital outputs
Size LxWxH	53 x 41 x 13 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)	-25..70 °C	Signal type positive switching
Ambient temperature (storage)	-25..85 °C	Notice Dout0 parallel with Din2
Rel. humidity (non-condensing)	5..90 %	Analog inputs
CAN bus		Number 1 (Ain0)
Protocol	DS301	Signal type 0..10 V, 12 Bit, single ended
Device profile	DS402	
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

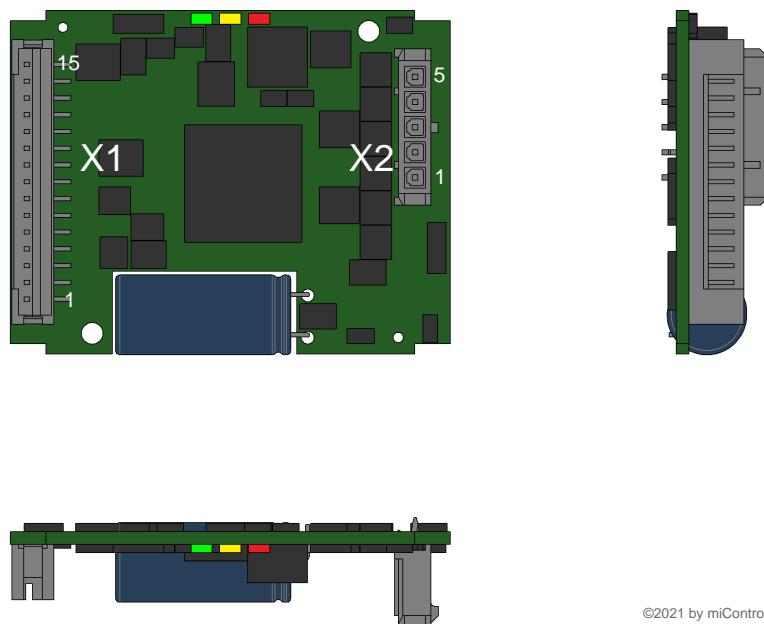
no guarantee, since value is determined empirical, please consider the application notes to determine the continuous current

*3 default value

*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