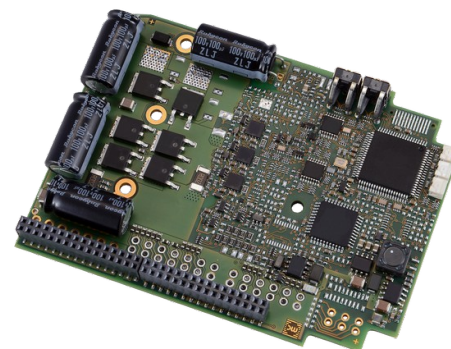


Servo amplifier

mcDSA-E40-Modul

Article number: 1503589



Picture similar

Technical data

Power	
Electronic supply voltage U _e	9..30 V
Electronic current consumption @ U _e =24V	typ. 50 mA
Power supply voltage U _p	9..60 V
Max. output current	30 A
Output voltage	90% U _p
PWM frequency	25, 32*, 50 kHz
Min. load inductance	200 µH
Mechanical	
Size LxWxH	97.5 x 71 x 13 mm
Weight	55 g
Environment	
Protection class	IP00
Operating temperature	0..70 °C
Rel. humidity (non-condensing)	5..85 %
Incremental encoder	
Type	incremental
Signals	A,/A,B,/B,Inx,/Inx
Max. frequency (per channel)	500 kHz
Input voltage (24V tolerant)	5 V
Signal type	differential, open collector, single ended
Hall sensors	
Signals	H1,/H1,H2,/H2,H3,/H3
Max. frequency (per channel)	10 kHz
Input voltage (24V tolerant)	5 V
Signal type	differential, open collector, single ended
Digital inputs	
Number	4 (Din0..3)
Low voltage	-30..5 V
High voltage	6..30 V
Digital outputs	
Number	1 (Dout0)
Continuous output current	2.5 A
Load	resistive, induktive

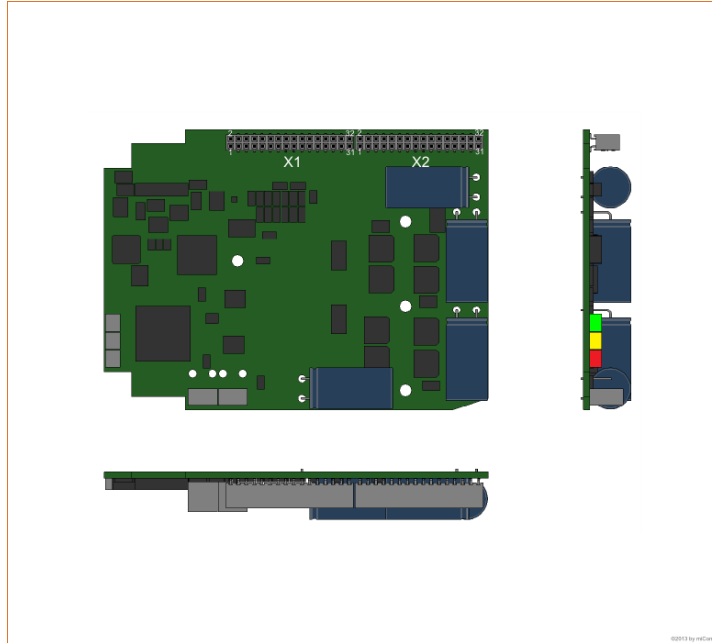
* default value

Additional technical data are available in mcManual.

Output voltage	Electronic supply voltage U _e
Signal type	positive switching
Analog inputs	
Number	2 (Ain0..1)
Signal type	0..10 V, 12 Bit, single ended
CAN bus	
Protocol	DS301
Device profile	DS402
Max. baudrate	1 Mbit/s
CAN specification	2.0B
Galvanically isolated	no



Scheme



Terminal assignment

X1	Hall, inc. encoder, I/O's and CAN	
1	CAN Hi	CAN High
2	CAN Lo	CAN Low
3	res.	Reserved
4	res.	Reserved
5	res.	Reserved
6	res.	Reserved
7	Din2	Digital input 2
8	Din3	Digital input 3
9	Din0	Digital input 0
10	Din1	Digital input 1
11	Ain0	Analog input 0
12	Ain1	Analog input 1
13	SpiMISO	mcSPI Master In Slave Out
14	Spi/SS	mcSPI Slave Select
15	SpiMOSI	mcSPI Master Out Slave In
16	SpiSCK	mcSPI Clock
17	Rx0	UART0 Receive Signal
18	Tx0	UART0 Transmit Signal
19	Erw1	mcSPI expansion signal 1
20	Erw2	mcSPI expansion signal 2
21	Inx	Inc. encoder, index channel
22	/Inx	Inc. encoder, index channel inverted
23	B	Inc. encoder, B channel
24	/B	Inc. encoder, B channel inverted
25	A	Inc. encoder, A channel
26	/A	Inc. encoder, A channel inverted
27	H3	Hall sensor 3
28	/H3	Hall sensor 3 inverted
29	H2	Hall sensor 2
30	/H2	Hall sensor 2 inverted
31	H1	Hall sensor 1
32	/H1	Hall sensor 1 inverted

X2	Motor	
1	+U5V	5V auxiliary voltage (hall and encoder)
2	GND	Ground for 5V auxiliary voltage (hall and encoder)
3	Dout0	Digital output 0
4	res.	Reserved
5	+Ue24V	Electronic supply voltage
6	+Ue24V	Electronic supply voltage
7	res.	Reserved
8	res.	Reserved
9	res.	Reserved
10	res.	Reserved
11	Mc	Motor phase C
12	Mc	Motor phase C
13	Mc	Motor phase C
14	Mc	Motor phase C
15	Mb	Motor phase B
16	Mb	Motor phase B
17	Mb	Motor phase B
18	Mb	Motor phase B
19	Ma	Motor phase A
20	Ma	Motor phase A
21	Ma	Motor phase A
22	Ma	Motor phase A
23	GND	Ground for power and electronic supply voltage
24	GND	Ground for power and electronic supply voltage
25	GND	Ground for power and electronic supply voltage
26	GND	Ground for power and electronic supply voltage
27	+Up	Power supply voltage
28	+Up	Power supply voltage
29	+Up	Power supply voltage
30	+Up	Power supply voltage
31	FE	Functional earth
32	FE	Functional earth