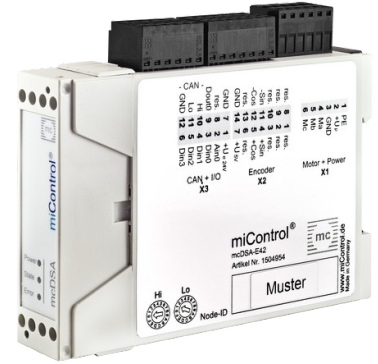


## Servo amplifier

# mcDSA-E42

Article number: 1504954 (HC Version 1504960)



Picture similar

### Technical data

Power	
Electronic supply voltage Ue	9..30 V
Electronic current consumption @ Ue=24V	typ. 50 mA
Power supply voltage Up	9..60 V
Max. output current	30 A
Continuous output current @ Ue=24V*2 (HC Version)	10 (12.5) A
Continuous output current @ Ue=48V*2 (HC Version)	8.5 (12.5) A
Output voltage	90% Up
PWM frequency	25, 32*1, 50 kHz
Min. load inductance	200 uH
Mechanical	
Size LxWxH (HC Version)	110 x 22.5(40) x 77 mm
Weight (HC Version)	110 (310) g
Environment	
Protection class	IP20
Operating temperature	0..70 °C
Rel. humidity (non-condensing)	5..85 %
Encoder	
Type	sin / cos
Signals	+Sin,-Sin,+Cos,-Cos
Resolution	13 bit per sine period
Input voltage	1 V peak-peak, differential
Signal type	sine/cosine, analog, differential
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
Output voltage	Electronic supply voltage Ue

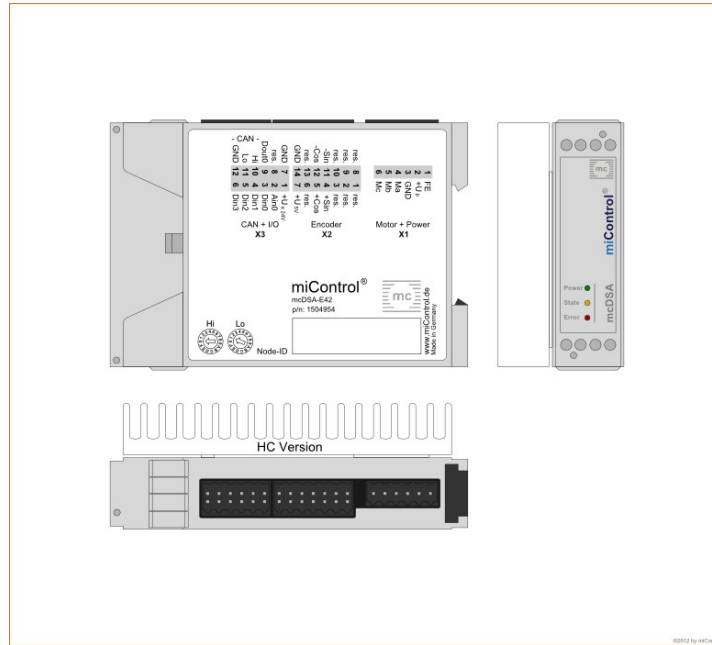
\*1 default value

\*2 ambient temperature 40 °C, PWM frequency 32 kHz

Additional technical data are available in mcManual.

Signal type	positive switching
Analog inputs	
Number	1 (Ain0)
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 Motor		
1	FE	Functional earth
2	+Up	Power supply voltage
3	GND	Ground for power supply voltage
4	Ma	Motor phase A
5	Mb	Motor phase B
6	Mc	Motor phase C
X2 Encoder		
1	res.	Reserved
2	res.	Reserved
3	res.	Reserved
4	+Sin	Encoder, plus sine signal
5	+Cos	Encoder, plus cosine signal
6	res.	Reserved
7	+U5V	5V auxiliary voltage (encoder)
8	res.	Reserved
9	res.	Reserved
10	res.	Reserved
11	-Sin	Encoder, minus sine signal
12	-Cos	Encoder, minus cosine signal
13	res.	Reserved
14	GND	Ground for 5V auxiliary voltage (encoder)
X3 I/O's and CAN		
1	+Ue24V	Electronic supply voltage
2	Ain0	Analog input 0
3	Din0	Digital input 0
4	Din1	Digital input 1
5	Din2	Digital input 2
6	Din3	Digital input 3
7	GND	Ground for electronic supply voltage
8	res.	Reserved
9	Dout0	Digital output 0
10	CAN Hi	CAN High
11	CAN Lo	CAN Low
12	CAN GND	CAN Ground