

Servo amplifier

mcDSA-E50

Article number: 1507888



Picture similar

Technical data

Power	
Electronic supply voltage Ue	9..30 V
Power supply voltage Up	9..60 V
Max. output current	20 A
Output voltage	90% Up
PWM frequency	25, 32*, 50 kHz
Min. load inductance	200 µH
Mechanical	
Size LxWxH	78 x 74 x 28 mm
Weight	100 g
Environment	
Protection class	IP20
Operating temperature	0..70 °C
Rel. humidity (non-condensing)	5..85 %
Incremental encoder	
Type	incremental
Signals	A,B,Inx
Max. frequency (per channel)	100 kHz
Input voltage	5 V
Signal type	open collector, single ended
Hall sensors	
Signals	H1,H2,H3
Max. frequency (per channel)	10 kHz
Input voltage	5 V
Signal type	open collector, single ended
Digital inputs	
Number	8 (Din0..7)
Low voltage	-30..5 V
High voltage	6..30 V
Digital outputs	
Number	4 (Dout0..3)
Continuous output current	0.3 A
Load	resistive, inductive
Output voltage	Electronic supply voltage

* default value

Additional technical data are available in mcManual.

	Ue
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 Supply		
1	FE	Functional earth
2	+Up	Power supply voltage
3	GND	Ground for power supply voltage
4	+Ue24V	Electronic supply voltage
5	GND	Ground for electronic supply voltage
X2 Analog inputs		
1	Ain0	Analog input 0
2	res.	Reserved
3	Ain1	Analog input 1
4	res.	Reserved
5	res.	Reserved
X3 CAN bus		
1	CAN Hi	CAN High
2	CAN Lo	CAN Low
3	CAN GND	CAN Ground
X4 Digital inputs/outputs		
1	res.	Reserved
2	Din0	Digital input 0
3	Din1	Digital input 1
4	Din2	Digital input 2
5	Din3	Digital input 3
6	Din4	Digital input 4
7	Din5	Digital input 5
8	Din6	Digital input 6
9	Din7	Digital input 7
10	Dout0	Digital output 0
11	Dout1	Digital output 1
12	Dout2	Digital output 2
13	Dout3	Digital output 3

X5 Hall and inc. encoder		
1	H1	Hall sensor 1
2	H2	Hall sensor 2
3	H3	Hall sensor 3
4	A	Inc. encoder, A channel
5	res.	Reserved
6	B	Inc. encoder, B channel
7	res.	Reserved
8	Inx	Inc. encoder, index channel
9	+U5V	5V auxiliary voltage (encoder)
10	GND	Ground for 5V auxiliary voltage (encoder)
X6 Motor		
1	Ma	Motor phase A
2	Mb	Motor phase B
3	Mc	Motor phase C