

Servo amplifier

mcDSA-B65

Article number: 1512434



Picture similar

Technical data

Supply voltages	
Electronic supply voltage Ue*1	9..30 V
Electronic current consumption@ Ue=24V*2	typ. 30 mA
Power supply voltage Up*3	9..60 V
Output current	
Max. output current	15 A
Continuous output current @ Up=24V*4	5 A
Continuous output current @ Up=48V*4	4.3 A
PWM	
Output voltage	100% Up
PWM frequency	12.5, 25*5 kHz
Mechanical	
Size LxWxH	74 x 45 x 17 mm
Weight	30 g
Environment	
Protection class	IP20
Ambient temperature (operation)	-25..70 °C
Ambient temperature (storage)	-25..85 °C
Rel. humidity (non-condensing)	5..90 %
CAN bus	
Protocol	DS301
Max. baudrate	1 Mbit/s
CAN specification	2.0B
Galvanically isolated	no

Sensor supply (Hall)	
Output voltage	5 V
Max. output current	0.2 A
Hall sensors	
Signals	H1,H2,H3
Max. frequency (per channel)	10 kHz
Input voltage	0..5 V
Signal type	open collector, single ended
Digital inputs	
Number - digital inputs	3 (Din0..2)
Low voltage	0..5 V
High voltage	8..30 V
Notice	Din2 parallel with Dout0
Digital outputs	
Number	1 (Dout0)
Continuous output current	1.5 A
Load	resistive, inductive
Output voltage	Electronic supply voltage Ue
Signal type	positive switching
Notice	Dout0 parallel with Din2
Analog inputs	
Number	1 (Ain0)
Signal type	+/- 10 V, 12 Bit, single ended

*1 No reverse polarity protection, the destruction limit is at overvoltage of $\geq 33V$ or short-term peak voltage of $37V < 1s$

*2 power amplifier switched off, 5V output (sensor supply) is free

*3 No reverse polarity protection, the destruction limit is at overvoltage of $\geq 80V$ *4 connector cable with max. possible cable cross-section, PWM frequency 25 kHz, ambient temperature 40 °C (t >40 °C derating), RMS current: 5 A \rightarrow 4.1 Aeff, 4.3 A \rightarrow 3.5 Aeff

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

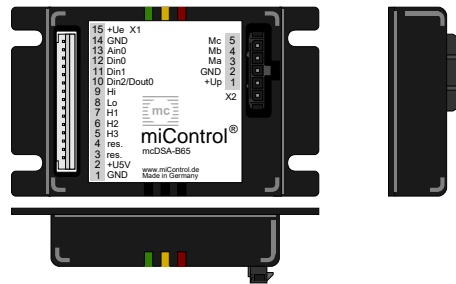
*5 default value

Additional technical data are available in mcManual.



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Scheme



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Terminal assignment

X1 Hall, I/O's and CAN		
1	GND	Ground for sensor supply Notice: don't connect with system GND
2	+U5V	5V output voltage for sensor supply Sensors: hall
3	res.	Reserved
4	res.	Reserved
5	H3	Hall sensor 3
6	H2	Hall sensor 2
7	H1	Hall sensor 1
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