

Servo amplifier

mcDSA-S40

Article number: 1504986 (HC Version 1504992)

Technical data

Power	
Electronic supply voltage U _e	9..30 V
Electronic current consumption @ U _e =24V	typ. 35 mA
Power supply voltage U _p	9..60 V
Max. output current	20 A
Output voltage	85% U _p
PWM frequency	25, 32, 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 %
Digital inputs	
Number	4 (Din0..3)
Low voltage	-30..5 V
High voltage	6..30 V
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

* default value

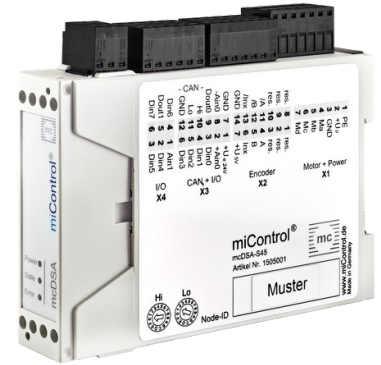
Additional technical data are available in mcManual.



Servo amplifier

mcDSA-S45

Article number: 1505001 (HC Version 1505007)



Picture similar

Technical data

Power	
Electronic supply voltage Ue	9..30 V
Electronic current consumption @ Ue=24V	typ. 60 mA
Power supply voltage Up	9..60 V
Max. output current	20 A
Output voltage	85% Up
PWM frequency	25, 32, 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 %
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
Digital inputs	
Number	8 (Din0..7)
Low voltage	-30..5 V
High voltage	8..30 V
Digital outputs	
Number	2 (Dout0..1)
Continuous output current	2.5 A
Load	resistive, inductive
Output voltage	Electronic supply voltage Ue
Signal type	positive switching
Analog inputs	
Number	1 (Ain0)
Signal type	+/- 10 V, 12 Bit,

* default value

Additional technical data are available in mcManual.

	differential
Number	1 (Ain1)
Signal type	+/- 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

Servo amplifier

mcDSA-S60

Article number: 1506125

Technical data

Power	
Electronic supply voltage Ue	9..30 V
Electronic current consumption @ Ue=24V	typ. 30 mA
Power supply voltage Up	9..60 V
Max. output current	10 A
Output voltage	85% Up
PWM frequency	25, 32, 50* kHz
Min. load inductance	200 uH
Mechanical	
Size LxWxH	74 x 45.5 x 14 mm
Weight	30 g
Environment	
Protection class	IP20
Operating temperature	0..70 °C
Rel. humidity (non-condensing)	5..85 %
Digital inputs	
Number	3 (Din0..2)
Low voltage	-30..5 V
High voltage	6..30 V
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

* default value

Additional technical data are available in mcManual.



Scheme



Terminal assignment

X1	I/O's and CAN	
1	GND	Ground for 5V auxiliary voltage
2	+U5V	5V 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	Digital input 2
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
6	Md	Motor phase D

Servo amplifier

mcDSA-S65

Article number: 1506121



Picture similar

Technical data

Power	
Electronic supply voltage Ue	9..30 V
Electronic current consumption @ Ue=24V	typ. 35 mA
Power supply voltage Up	9..60 V
Max. output current	10 A
Output voltage	85% Up
PWM frequency	25, 32, 50* kHz
Min. load inductance	200 uH
Mechanical	
Size LxWxH	74 x 45.5 x 14 mm
Weight	30 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
Digital inputs	
Number	3 (Din0..2)
Low voltage	-10..5 V
High voltage	6..30 V
Notice	Din2 parallel with Dout0
Digital outputs	
Number	1 (Dout0)
Continuous output current	1.5 A
Load	resistive, induktive
Output voltage	Electronic supply voltage Ue
Signal type	positive switching
Notice	Dout0 parallel with Din2
Analog inputs	

* default value

Additional technical data are available in mcManual.

Number	1 (Ain0)
Signal type	+/- 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 Inc. encoder, I/O's and CAN		
1	GND	Ground for 5V auxiliary voltage (encoder)
2	+U5V	5V auxiliary voltage (encoder)
3	B	Inc. encoder, B channel
4	A	Inc. encoder, A channel
5	Inx	Inc. encoder, index channel
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
6	Md	Motor phase D