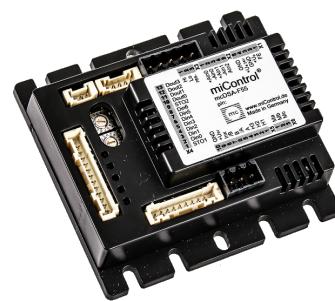


Servo amplifier

mcDSA-F57

Article number: 1512079



Picture similar

Technical data

Absolute maximum rating (destruction limits)		Sensor supply (Encoder)
Power supply voltage Up no polarity reversal protection	70 V	Output voltage 5 V
Continuous Electronic supply voltage Ue no polarity reversal protection	33 V	Max. output current 0.2 A
Short term peak voltage < 1s Ue no polarity reversal protection	37 V	Encoder
Power		Type sin / cos
Electronic supply voltage Ue	9..30 V	Signals +Sin,-Sin,+Cos,-Cos
Electronic current consumption@ Ue=24V*1	typ. 60 mA	Resolution 13 bit per sine period
Power supply voltage Up	9..60 V	Input voltage 1 V peak-peak, differential
Max. output current	50 A	Signal type sine/cosine, analog, differential
Continuous output current*2	12.5 A	Digital inputs
PWM		Number - digital inputs 6 (Din0..5)
PWM frequency	32 kHz	Number - hardware enable inputs 2 (EN-A..B)
Mechanical		Low voltage 0.5 V
Size LxWxH	78 x 74 x 29 mm	High voltage 8..30 V
Weight	95 g	Digital outputs
Environment		Number 4 (Dout0..3)
Protection class	IP20	Continuous output current 0.3 A
Ambient temperature (operation)*3	-40..70 °C	Load resistive, inductive
Ambient temperature (storage)	-40..85 °C	Output voltage Electronic supply voltage Ue
Rel. humidity (non-condensing)	5..90 %	Signal type positive switching
CAN bus		Analog inputs
Protocol	DS301	Number 3 (Ain0..2)
Device profile	DS402	Signal type - Ain0..1 +/- 10 V, 12 Bit, differential
Max. baudrate	1 Mbit/s	Signal type - Ain2 0.5 V, 12 Bit, single ended
CAN specification	2.0B	
Galvanically isolated	yes	

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

*2 connector cable with max. possible cable cross-section, PWM frequency 32 kHz, ambient temperature 40 °C (t > 40 °C derating), RMS current: 12.5 A → 8.8 Aeff no guarantee, since value is determined empirical, please consider the application notes to determine the continuous current

*3 Hex-Switches should be not used at T < -25°C (setting of node ID only possible by firmware parameters)

Additional technical data are available in mcManual.



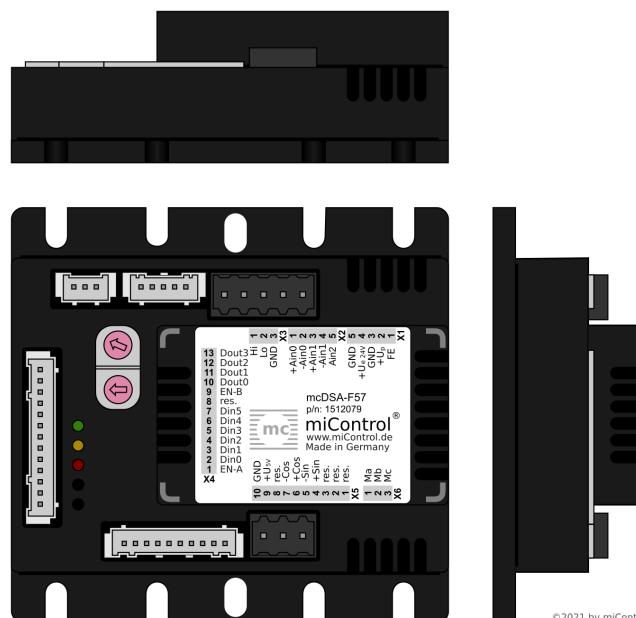
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Scheme



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Terminal assignment

X1	Supply
1	FE
2	+Up
3	GND
4	+Ue24V
5	GND
X2	Analog inputs
1	+Ain0
2	-Ain0
3	+Ain1
4	-Ain1
5	Ain2
X3	CAN bus
1	CAN Hi
2	CAN Lo
3	CAN GND
X4	Digital inputs/outputs
1	EN-A
2	Din0
3	Din1
4	Din2
5	Din3
6	Din4
7	Din5
8	res.
9	EN-B
10	Dout0
11	Dout1
12	Dout2
13	Dout3

X5	Encoder
1	res.
2	res.
3	res.
4	+Sin
5	-Sin
6	+Cos
7	-Cos
8	res.
9	+U5V
10	GND

X6	Motor
1	Ma
2	Mb
3	Mc