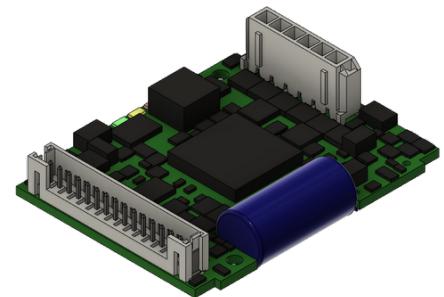


Servo amplifier

mcDSA-FS60-LP

Article number: 1516014



Picture similar

Technical data

Supply voltages		Auxiliary voltage	
Electronic supply voltage Ue* ¹	9..30 V	Output voltage	5 V
Electronic current consumption@ Ue=24V* ²	typ. 30 mA	Max. output current	0.2 A
Power supply voltage Up* ³	9..60 V	Digital inputs	
Output current		Number - digital inputs	3 (Din0..2)
Max. output current	10 A	Low voltage	0..5 V
Continuous output current @ Up=24V* ⁴	3.5 A	High voltage	8..30 V
Continuous output current @ Up=48V* ⁵	3 A	Analog inputs	
PWM		Number	1 (Ain0)
Output voltage	85% Up	Signal type	0..10 V, 12 Bit, single ended
PWM frequency	32 kHz		
Commutation type	Field Oriented Control		
Mechanical			
Size LxWxH	53 x 41 x 13 mm		
Weight	18 g		
Environment			
Protection class	IP00		
Ambient temperature (operation)	-25..70 °C		
Ambient temperature (storage)	-25..85 °C		
Rel. humidity (non-condensing)	5..90 %		
CAN bus			
Protocol	DS301		
Device profile	DS402		
Max. baudrate	1 Mbit/s		
CAN specification	2.0B		
Galvanically isolated	no		

*¹ No reverse polarity protection, the destruction limit is at overvoltage of >= 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 >= 80V*⁴ connector cable with max. possible cable cross-section, PWM frequency 32 kHz, ambient temperature 40 °C (t >40 °C derating), RMS current: 3.5 A → 2.9 Aeff, 3 A → 2.4 Aeff

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

*⁵ connector cable with max. possible cable cross-section, PWM frequency 32 kHz, ambient temperature 40 °C (t >40 °C derating), RMS current: 3.3 A → 2.9 Aeff, 3 A → 2.4 Aeff

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

Additional technical data are available in mcManual.



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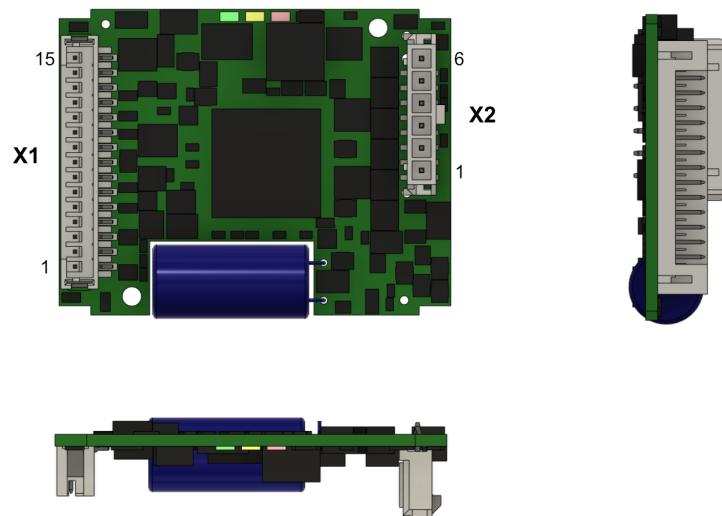
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Scheme



Terminal assignment

X1	I/O's and CAN	
1	GND	Ground of the auxiliary voltage Notice: don't connect with system GND
2	+U5V	5V output voltage (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