

Servo amplifier

mcDSA-E62-EtherCAT

Article number: 1505027

Technical data

Power	
Electronic supply voltage Ue	9..30 V
Electronic current consumption @ Ue=24V (Bus not connected)	typ. 55 mA
Power supply voltage Up	9..60 V
Max. output current	15 A
Continuous output current	5 A
Output voltage	90% Up
PWM frequency	25, 32*, 50 kHz
Min. load inductance	200 µH
Mechanical	
Size LxWxH	74 x 45.5 x 36 mm
Weight	65 g
Environment	
Protection class	IP20
Operating temperature	0..70 °C
Rel. humidity (non-condensing)	5..85 %
Encoder	
Type	sin / cos
Signals	+Sin,-Sin,+Cos,-Cos
Resolution	13 bit per sine period
Input voltage	1 V peak-peak, differential
Signal type	sine/cosine, analog, differential
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

* default value

Additional technical data are available in mcManual.

Notice	Dout0 parallel with Din2
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
EtherCAT	
Type	EtherCAT Slave
Physical layer	100 Base-Tx EtherCAT
Bus controller	ET1100
Max. baudrate	100 Mbit/s
Number of ports	2xRJ45 (In,Out)
Protocol	CoE (CANopen over EtherCAT)

Scheme



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Terminal assignment

X1 Encoder, I/O's and CAN		
1	GND	Ground for 5V auxiliary voltage (encoder)
2	+U5V	5V auxiliary voltage (encoder)
3	+Cos	Encoder, plus cosine signal
4	+Sin	Encoder, plus sine signal
5	res.	Reserved
6	-Cos	Encoder, minus cosine signal
7	-Sin	Encoder, minus sine signal
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	res.	Reserved
X3 EtherCAT - In port		
X4 EtherCAT - Out port		