

Servo amplifier

mcDSA-E67-RS232

Article number: 1505041

Technical data

| Power | |
|---|---|
| Electronic supply voltage U _e | 9..30 V |
| Electronic current consumption @ U _e =24V (Bus not connected) | typ. 50 mA |
| Power supply voltage U _p | 9..60 V |
| Max. output current | 15 A |
| Continuous output current | 5 A |
| Output voltage | 100% U _p |
| 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 U _e |
| Signal type | positive switching |

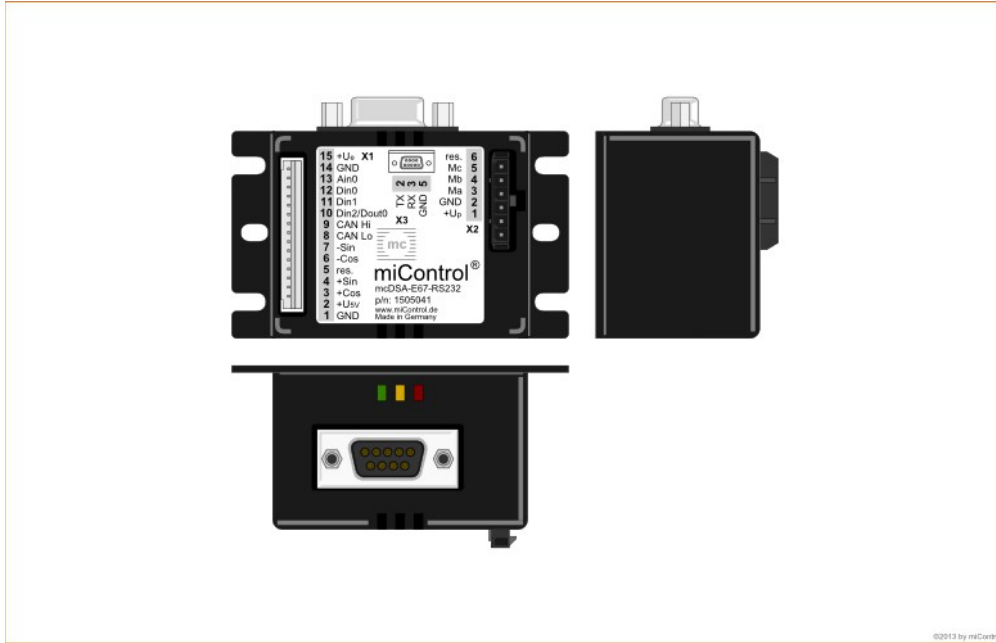
* default value

Additional technical data are available in mcManual.

| Notice | Dout0 parallel with Din2 |
|-----------------------|---------------------------------------|
| Analog inputs | |
| Number | 1 (Ain0) |
| Signal type | +/- 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 |
| RS232 | |
| Type | Data Communication Equipment (DCE) |
| Physical layer | RS232 |
| Baudrate | 9600 bit/s |



Scheme



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 RS232 | | |
| 1 | res. | Reserved |
| 2 | TX | Transmit Signal |
| 3 | RX | Receive Signal |
| 4 | res. | Reserved |
| 5 | GND | Ground |
| 6 | res. | Reserved |
| 7 | res. | Reserved |
| 8 | res. | Reserved |
| 9 | res. | Reserved |