

Servo amplifier

mcDSA-S65

Article number: 1511665



Picture similar

Technical data

| Absolute maximum rating (destruction limits) | |
|--|-------------------|
| Power supply voltage Up no polarity reversal protection | 80 V |
| Continuous Electronic supply voltage Ue no polarity reversal protection | 33 V |
| Short term peak voltage < 1s Ue no polarity reversal protection | 37 V |
| Power | |
| Electronic supply voltage Ue | 9..30 V |
| Electronic current consumption @ Ue=24V*1 | typ. 35 mA |
| Power supply voltage Up | 9..60 V |
| Max. output current | 10 A |
| Continuous output current @ Up=24V*2 | 3.5 A |
| Continuous output current @ Up=48V*2 | 3 A |
| PWM | |
| Output voltage | 85% Up |
| PWM frequency | 32 kHz |
| Mechanical | |
| Size LxWxH | 74 x 45.5 x 14 mm |
| Weight | 30 g |
| Environment | |
| Protection class | IP20 |
| 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 |
| Sensor supply (Encoder) | |
| Output voltage | 5 V |
| Max. output current | 0.2 A |
| Incremental encoder | |
| Type | incremental |
| Signals | A,B,Inx |
| Max. frequency (per channel) | 100 kHz |
| Input voltage | 0..5 V |
| Signal type | open collector, single ended |
| Digital inputs | |
| Number - digital inputs | 3 (Din0..2) |
| Low voltage | 0..5 V |
| High voltage | 8..30 V |
| Notice | Din2 parallel with Dout0 |
| Digital outputs | |
| Number | 1 (Dout0) |
| Continuous output current | 1.5 A |
| Load | resistive, inductive |
| Output voltage | Electronic supply voltage Ue |
| Signal type | positive switching |
| Notice | Dout0 parallel with Din2 |
| Analog inputs | |
| Number | 1 (Ain0) |
| Signal type | +/- 10 V, 12 Bit, single ended |

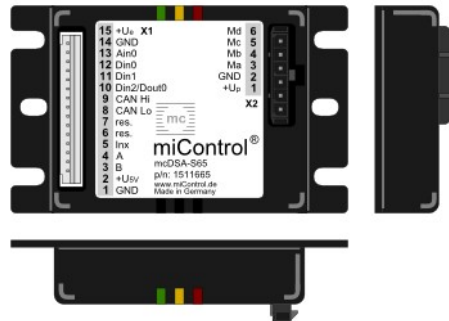
*1 power amplifier switched off, 5V output (sensor supply) is free

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

Additional technical data are available in mcManual.



Scheme



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Terminal assignment

| X1 Inc. encoder, I/O's and CAN | | |
|--------------------------------|------------|---|
| 1 | GND | Ground for sensor supply Notice: don't connect with system GND |
| 2 | +U5V | 5V output voltage for sensor supply Sensors: 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 |