

PRÄZISION IN BEWEGUNG

Motor Controller E55



1. Technical Data Motor Controller E55

| Name | Value |
|----------------------------------|--|
| Power | |
| - Electronic supply voltage Ue | 9..30 V |
| - Power supply voltage Up | 9..60 V |
| - Max. output current | 50 A |
| - Continuous output current*2 | 7 A |
| - Output voltage | 100% Up |
| - PWM frequency | 25, 32*1, 50 kHz |
| - PWM mode | symmetrical / asymmetrical |
| - Min. load inductance | 200 uH |
| Motor types | |
| - DC motors | yes |
| - BLDC motors | yes |
| - Linear motors | yes |
| - Stepper motors | no |
| Mechanical | |
| - Size LxWxH | 78 x 74 x 28 mm |
| - Weight | 100 g |
| - Assembly | Wall |
| - Connectors | Tension clamp connection, crimp technology |
| Environment | |
| - Protection class | IP20 |
| - Operating temperature | 0..40 °C |
| - Rel. humidity (non-condensing) | 5..85 % |
| Control elements | |
| - Hex switches | yes |
| - Status LEDs | yes |
| Controller cycle times | |
| - Current controller (CURR) | 125 us |
| - Velocity controller (SVEL) | 250 us |
| - Velocity controller (VEL) | 1000, 2000*1 us |
| - Position controller (POS) | 1000, 2000*1 us |
| Incremental encoder | |
| - Type | incremental |
| - Signals | A,/A,B,/B,Inx |

| Name | Value |
|--------------------------------|---|
| - Max. frequency (per channel) | 500 kHz |
| - Input voltage (24V tolerant) | 5 V |
| - Signal type | differential, open collector, single ended, 2,5k Ω input impedance |
| Hall sensors | |
| - Signals | H1,H2,H3 |
| - Max. frequency (per channel) | 10 kHz |
| - Input voltage | 5 V |
| - Signal type | open collector, single ended, 5V pull up intern 920k Ω |
| Digital inputs | |
| - Number | 8 (Din0..7) |
| - Low voltage @Ta = 25°C | -30..5 V |
| - High voltage @Ta = 25°C | 7.5..30 V |
| Digital outputs | |
| - Number | 4 (Dout0..3) |
| - Continuous output current | 0.3 A |
| - Load | resistive, inductive |
| - Output voltage | Electronic supply voltage Ue |
| - Signal type | positive switching |
| Analog inputs | |
| - Number | 2 (Ain0..1) |
| - Signal type | +/- 10 V, 12 Bit, differential, 20k Ω input impedance |
| - Number | 1 (Ain2) |
| - Signal type | 0 .. 5V, 12 Bit, single ended, 5V pull up intern 1,5k Ω |
| CAN bus | |
| - Protocol | DS301 |
| - Device profile | DS402 |
| - Max. baudrate | 1 Mbit/s |
| - CAN specification | 2.0B |
| - Galvanically isolated | no |

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