



PRÄZISION IN BEWEGUNG

Motor Controller E25

1. Technical Data Motor Cotroller E25

Name	Value
Power	
- Electronic supply voltage Ue	9..30 V
- Electronic current consumption @ Ue=24V	typ. 70 mA
- Power supply voltage Up	9..60 V
- Max. output current	100 A
- Continuous output current @ Up=24V*2	35 A
- Continuous output current @ Up=48V*2	26 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	111 x 100 x 30 mm
- Weight	380 g
- Assembly	Wall
- Connectors	Tension clamp connection
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 ₁ /A ₂ ,B ₁ /B ₂ ,Inx ₁ /Inx ₂
- Max. frequency (per channel)	500 kHz
- Input voltage (24V tolerant)	5 V
- Signal type	differential, open collector, single ended
Hall sensors	
- Signals	H1 ₁ /H1 ₂ ,H2 ₁ /H2 ₂ ,H3 ₁ /H3 ₂
- Max. frequency (per channel)	10 kHz
- Input voltage (24V tolerant)	5 V
- Signal type	differential, open collector, single ended
Digital inputs	
- Number	8 (Din0..7)
- Low voltage	-30..5 V
- High voltage	8..30 V
Digital outputs	
- Number	2 (Dout0..1)
- Continuous output current	2.5 A
- Load	resistive, inductive
- Output voltage	Electronic supply voltage U _e
- Signal type	positive switching
Analog inputs	
- Number	1 (Ain0)
- Signal type	+/- 10 V, 12 Bit, differential
- Number	1 (Ain1)
- 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	yes

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