Drive controller ACxx050A00S05.xx

The drive controller is designed for a mains connection (SELV or PELV) in a range of 24 V to 48 V DC.
For the logic supply is a power supply (SELV or PELV) with 24 V DC necessary. The drive controller is designed to connect several types of electrical motors and several position encoders.
The motor control is with integrated safety function STO (Safe torque off) (**not for** DC brush motors).

Technical Data

Drive controller (ACxx050A00S05.xx)

Conformity

Machinery Directive	2006/42/EC
EMC Directive	2014/30/EU

Safety related parameters

Application STO	SIL 3 and Category 3, PL e

Rated Data

Power supply

Input voltage	24 V to 48 V DC SELV or PELV (return voltage capability to 60 V DC)

Logic Supply

Input voltage	24 V DC; SELV or PELV

Output current

Output current	Continuous output current	Peak output current (t < 8 s)
AC05050A00S05.xx	5 A	10 A
AC08050A00S05.xx	8 A	16 A

Motor control

Supported types of motors

Servo motor, BLDC, DC brush motor
2-phase stepper motor, 3-phase stepper motor, low-rating linear motors, LinMot

Supported position encoders

Resolver, Hiperface DSL, sine/cosine encoder, RS422 encoder, digital hall sensor, EnDat 2.2; LinMot und BiSS

I/O-Interface

1 digital 24V-SI-Input (dual-channel) and STO-Diagnostic contact (single-channel)
4 digital 24V-Inputs
2 analog inputs (-10 V to +10 V (12 bits))
1 analog output (-10 V to +10 V (12 bits))
Motor holding brake Max. 500 mA

Fieldbus interface
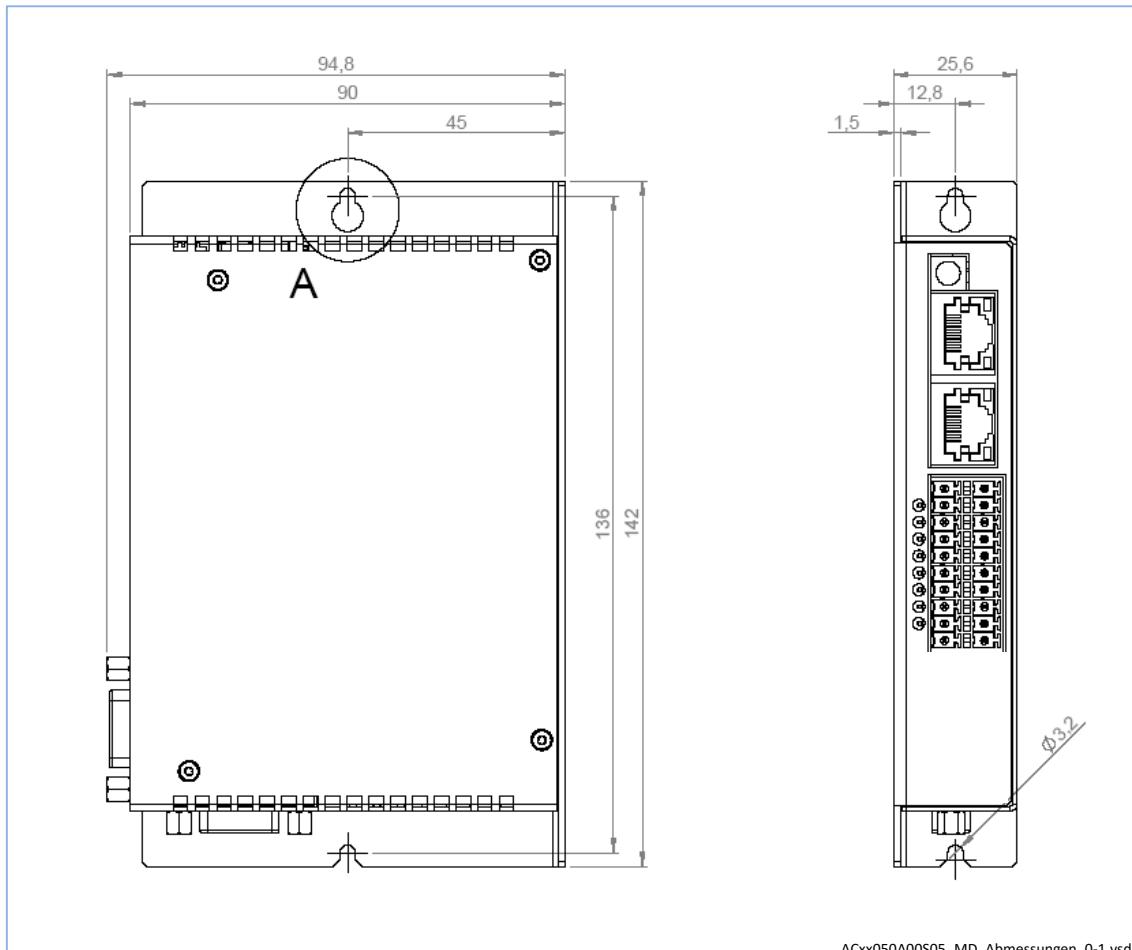
CAN (CANopen DS301 with DSP402)
EtherCAT (CoE, FoE)

Engineering interface

USB-Interface	Micro-USB
SD-Card	microSDHC

Dimensions Drive controller

Drive controller	Weight [kg]	Height [mm]	Width [mm]	Depth [mm]
ACxx050A00S05.xx	0.41	142	25.6	94.8

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