

Drive system 120 V DC

The drive system 120 V DC consist of power supply and drive modul with EtherCAT.

The power supply with active PFC is connected to a three-phase 400 V mains supply and supplies several drive modules with the DC-bus voltage. With the drive modules is the selection of safety function according to EN 61800-5-2 (STO, SS1, SS2, SOS, SLS, SDI, SMS, SBC with SBT) with Safety-over-EtherCAT possible.



Technical Data

Drive system 120 V DC

Conformity

Machinery Directive	2006/42/EC
EMC Directive	2014/30/EU
LVD Directive	2014/35/EU

Safety related parameters

STO, SS1, SS2, SOS, SLS, SDI, SMS, SBC	Category 3, PL d according to EN ISO 13849-1:2015
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Power supply (PS33120A00S00)

Mains Supply

Input voltage	3 x 400 V AC +/-20 %
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Output voltage (DC-bus)

Output voltage	120 V DC
Output power	2 kW
Output power for 10 s	4 kW

Drive modul (AC10120A00S00)

Power supply

Input voltage	120 V DC
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Logic supply

PELV	24 V DC (+/-20 %)
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Supported types of motors

Synchronous motors (PMSM), asynchronous motors (ASM); connection of holding brake possible

Supported position encoders

Resolver, Hiperface, sine/cosine encoder, EnDat 2.2, BiSS, Hiperface DSL, SCS open link, Magnescale; further encoder on request; with motor temperature monitoring

I/O-Interface

6 digital 24V-inputs
1 analog output (for brake with SBC)

Fieldbus interface

CoE (CANopen over EtherCAT)
FoE (File Access over EtherCAT)
Safety-over-EtherCAT

Engineering interface

USB-Interface	Micro-USB
SD-Card	microSDHC

It is still possible the drive system 325 V DC and the drive system 600 V DC with power supply and different drive modules.



Dimensions Drive modul

Device	Weight [kg]	Height [mm]	Width [mm]	Depth [mm]
Power supply PS33120A00S00	in preparation	178	142	126
Drive modul AC10120A00S00	in preparation	178	30	126

