Eckelmann

Embedded Controller – E°EXC 89

Special Functional and Performance Features

The compact E°EXC 89e controller with up to 32 NC and 64 motion axes, which can be used in combination, has the following features:

- Suitable for PLC/NC and motion applications

- Up to 32 NC and 64 motion axes (combinable)

- CODESYS® V3 run time system

- CNC core with large instruction set

- Direct connection of fast I/O modules from the E°UBM family

- OPC UA server for Industry 4.0 connection

- Versatile technology specific functions (from circular/eccentricity grinding to flame cutting)

- Simple configuration through automatic detection of supported drives and powerful engineering tool

- Customizing possibility

Technical Data

Electrical connection

- Power supply
- Power consumption

24 V DC +20 % / -15 %
Max. I_{IN} 10 A incl. controller
Max. I_{OUT} 10 A

Interfaces

- CAN bus
- Standard Ethernet
- Real-time Ethernet
- USB
- Card slot
- Programming interface
- Monitoring function

2 x CANopen® port for drives or I/O-modules according to DS 401
1 x as an interface to a superimposed network, 100 MBit
1 x EtherCAT® for drives and I/O-modules
Device
Slot for SD or SDHC card
Ethernet
Software watchdog

Central processing unit

- CPU
- FLASH
- RAM

- Memory extension

RISC processor
Up to 1 GB NAND FLASH
256 MB DDR2-RAM
1 MByte CMOS-RAM, battery buffered
Slot for SD card

General Data

- Color
- Dimensions (w x h x d)
- Weight
- Temperature range — Transport/storage: / Operation:
- Relative humidity max.
- Cooling
- Protection class
- Standards and regulations

Black
100 mm x 120 mm x 76 mm
370 g
-40 °C to +70 °C
+5 °C to +55 °C
10 % to 90 %, non condensing
Air circulation, no fan
IP20
EC declaration of conformity according to
  - 2014/30/EU (EMV Directive)
  - 2011/65/EU (RoHS Directive)
UL listed: cULus E257496

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