

Eckelmann

Embedded Controller – E°EXC 89e



Special Functional and Performance Features

The compact E°EXC 89e controller has the following features:

- CNC functionality with a maximum of 32 axes
- Limitations for a controller with 8 or 32 axes:
A maximum of 4 simultaneously interpolating axes and additionally up to 28 auxiliary or gantry axes
- CODESYS® V3 run time system
- CNC core with large instruction set
- Direct connection of fast I/O modules from the E°UBM family
- EtherCAT® Master
- OPC UA Server and OPC UA Client 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 24 V DC +20 % / -15 %
- Power consumption Max. I_{IN} 10 A incl. controller
Max. I_{OUT} 10 A

Interfaces

- CAN bus 2 x CANopen® port for drives or I/O-modules according to DS 401
- Standard Ethernet 1 x as an interface to a superimposed network, 100 Mbit
- Real-time Ethernet 1 x EtherCAT® for drives and I/O-modules
- USB Device
- Card slot Slot for SD or SDHC card
- Programming interface Ethernet
- Monitoring function Software watchdog

Central processing unit

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

General data

- Color Black
- Dimensions (w x h x d) 100 mm x 120 mm x 76 mm
- Weight 370 g
- Temperature range Transport/storage: -40 °C to +70 °C
Operation: +5 °C to +55 °C
- Relative humidity max. 10 % to 90 %, non condensing
- Cooling Air circulation, no fan
- Protection class IP20

Standards and regulations

- EC Declaration of Conformity according to
 - 2014/30/EU (EMV Directive)
 - 2011/65/EU (RoHS Directive)
- UK Declaration of Conformity according to
 - SI 2016/1091 The Electromagnetic Compatibility Regulations 2016
 - SI 2012/3032 The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012
- UL listed: cULus E257496

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