Eckelmann

Embedded Controller – E°EXC 89

Special Functional and Performance Features

The compact E°EXC 89 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

- 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)

- Compatible to E°SLC 89 Safety Logic Controller

- 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