

Uniaxis Positioning Control Processor System MCC 144 - BUS

> POSI 3002

Application

Point to point control for steplessly adjustable drives f. e.

- > Speed-controlled DC drives
- > Frequency-controlled drives
- > Proportional valves
- > Hydraulic valves

Using

- > Autarcic positioning equipment with input comfort and status messages and trouble report on the display
- > Slave system with interfaces for correspondence to real-time processor systems.

Construction

- > Keypad with tactile feedback
- > Hardware modular with 6 plug-in slots (standard housing)

Plug-in cards

- > Power supply unit
- > Encoder unit, incremental or absolute
- > Input unit, 24-fold, 24 VDC / 2,2 k
- > Output unit, 16-fold, 24 VDC / 50 or 200 mA
- > Analog output unit, +- 10 V
additionally 8 digital inputs, 24 VDC / 2,2 k
- > Interface unit, serial or parallel

Encoder

- > Incremental, K1, K2, K0
- > Absolute, BCD, Binäre, Gray

Resolution

- > 9999 path-elements

Input Frequency

- > 100 kHz

Inputs

- > Automatic
- > Start and Stop, 1 pce per item
- > Externer Programmaufruf, 2 pce
- > Calibrating
- > Limit switch right and left, 1 pce per item
- > Manual operation right and left, 1 pce per item
- > Further inputs as option

Outputs

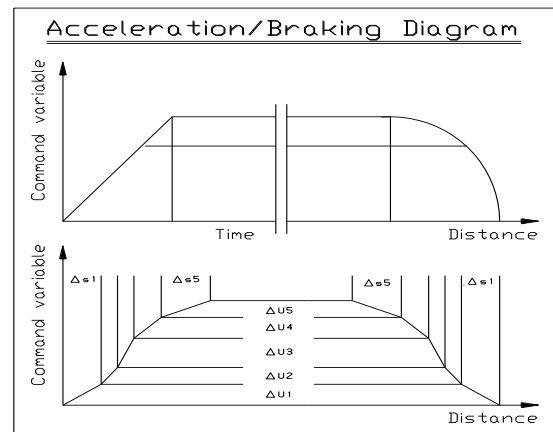
- > 3 static machine functions
- > 8 dynamic machine functions
- > Stop and position reached, 1 pce per item
- > Programm end
- > Trouble
- > To move to Reference position
- > Further outputs as option

Analog output

- > +- 10 V, 12 bit, 3 mA



POSI 3002, System MCC 144-BUS



Accelerating and Braking Diagram

Display

- > 12-dec, alphanumeric
- > Target and actual values
- > Status message and trouble report
- > Text information for operating

LED's

- > Status message of the outputs

Monitoring the system and peripheral equipment

- > Power supply
- > Battery voltage
- > Processor routines
- > Encoder

Programming

- > Absolute or relative positioning
- > Direct input or teach-in
- > Data input in various measurements units
- > f. e. mm, inch, degree



Program flow

Der Program flow is determined by input of

- > Control information
- > Parameter
- > Data

Control Information f. e.

- > Acceleration and braking function
- > Holding control on or off
- > Calibrating running after starting on or off
- > Positioning mode
- > Machine functions
- > Absolute or relative positioning

Parameter f. e.

- > Number of programs and steps
- > Analog command value in automatic and manual operation
- > Min. command value
- > Steepness of the holding control
- > Accelerating and Braking as distance or time function
- > Correction value for the braking function
- > Tolerance range
- > Tool correction
- > Calibrating value
- > Software limit switch right and left

Daten u.a.

- > Program and step no
- > Positioning path or length for cutting
- > Analog command value
- > Transfer address
- > Static and dynamic machine functions

Accelerating and Braking Function

- > Square root function
- > Function consisting of 3, 5, 20 or 50 partial straight lines

Braking start

- > derived from the acceleration values programmed in the parameter range
- > programmed as distance values before the aiming point

Electronic gear

- > Conversion linear measurement units to angular dimensions

Dimension

- > Width x High = 144 x 144 mm
- > Depth = 138 mm additional connector 60 mm
- > Cut-out = 138,00 mm x 133,40 mm

General Data

- > Power supply 24V AC or DC
- > Current consumption 350 mA without encoder, output not operating
- > Data protection for 5 years by Lithium battery
- > Connection on the back with connectors
- > Type of protection IP 55
- > Allowable ambient temperature 0-55 °C

Abmessungen

