

ND40 servo converter

Technical features

Position feedback systems

- resolver
- sine encoders (with and without commutation track) of various manufacturers
- linear incremental measuring systems of various manufacturers
- rotary absolute measuring systems (single-turn/multi-turn) with Heidenhain ENDAT 2.2 interface
- linear absolute measuring systems with Heidenhain ENDAT 2.2 interface

Bus systems

- control and configuration over PC via serial interface with NOVOBUS protocol
- control and configuration over integrated CAN bus interface with NOVOBUS protocol; setpoint setting over service channel or process data channel; freely selectable configuration of process data read/write telegrams
- extension module "Profibus" for easy PLC connection
- extension module "CANOpen" for easy PLC connection

Other interfaces

- 12 digital inputs
- 6 digital outputs
- 10/12/14 bit analog input
- counter input for setpoint setting over electronic gear or via frequency/direction
- encoder emulation when using a resolver (1 - 1024 pulses per rotation)

Regulation

- position/speed regulation with/without torque limitation
- immediate switching of regulation mode and setpoint setting mode within 5 ms
- cycle time for regulation of position and speed: 102 μ s
- cycle time for current control: 102 μ s or 204 μ s, respectively

Setpoint setting

Freely selectable from various sources:

- analog setpoint setting for speed
 - frequency/direction setpoint setting
 - setpoint setting over electronic gear
 - digital setpoint setting for speed over bus
 - setpoint setting over positioning control in various forms, e.g. relative/absolute setpoint setting, linear ramps, setpoint ramps etc.
 - setpoint setting over sequencing control feat. 128 parameter sets
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