

# Frequency inverter for control cabinet installation – NORDAC PRO

The **NORDAC PRO...** – as a universal inverter – is suitable for a wide range of drive applications.

- ▶ The NORDAC PRO SK 500P control cabinet inverters cover motor powers from 0.25 to 160 kW and feature ultimate levels of connectivity, functionality and versatility
- ▶ Various inverter versions can be optimally allocated to various application requirements



## Features

- ▶ Current-vector control
- ▶ High overloads up to 200%
- ▶ 4 parameter sets, selectable online
- ▶ Certifications including CE, cUL, EAC
- ▶ Functional safety
- ▶ Plug-in terminals
- ▶ Intuitive operation
- ▶ Potential-isolated PTC connection
- ▶ Integrated line filter
- ▶ Integrated brake chopper
- ▶ Very compact, book-sized design
- ▶ Power: 0.25 kW ... 160 kW
- ▶ Voltage: 1~ 200 ... 240 V bis 2,2 kW  
3~ 380 ... 480 V bis 160 kW
- ▶ Downward compatible to SK 500E

## Highlights

- ▶ Integrated Multi-Ethernet interface
- ▶ On-board PLC
- ▶ CANopen system bus
- ▶ USB-C interface
- ▶ µSD slot
- ▶ Multi-encoder interface
- ▶ Bluetooth connection NORDCON APP
- ▶ Asynchronous and synchronous motors



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## Multi-Ethernet communication

- ▶ Ethernet dialects can be selected via parameters
  - ▶ PROFINET
  - ▶ EtherCAT
  - ▶ EtherNet/IP
  - ▶ POWERLINK
- ▶ RJ45 daisy-chain ports

## CANopen communication

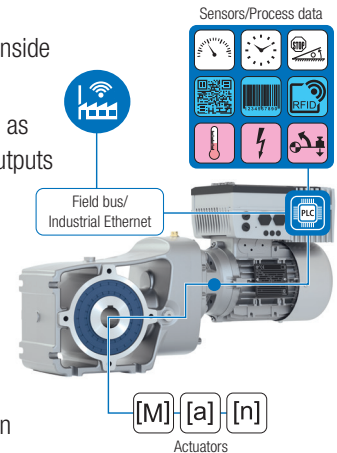
- ▶ CANopen system bus
- ▶ Drive synchronisation: For synchronisation of multiple drives, process data is exchanged between the drives via CANopen
- ▶ Gateway function: As an Ethernet inverter, the NORDAC PRO provides a gateway with which up to 7 further inverters can be addressed via CANopen

## USB interface and µSD slot

- ▶ USB-C interface for parameterisation without mains voltage supply
- ▶ µSD card slot as parameter storage or for copying

## On-board PLC

- ▶ Programming of application-specific functions according to IEC 61131-3 inside the inverter
- ▶ Access to parameters, process values as well as analogue/digital inputs and outputs for signal processing
- ▶ Movement implementation without central control system
- ▶ Available as part of the NORDCON software tool without additional costs or license fees
- ▶ Function blocks according to PLCopen standard



## NORDCON APP

- ▶ The available functions of the free NORDCON APP are based on the PC-based NORDCON software tool
- ▶ Oscilloscope function for drive analysis
- ▶ Parameterisation with help function and rapid access to parameters
- ▶ Dashboard-based visualisation
- ▶ Backup and recovery-function



## Multi-encoder interface

- ▶ Processing of up to 4 encoders possible:
  - ▶ 3 x incremental encoders for closed-loop control
  - ▶ 1 x CANopen absolute encoder for positioning
- ▶ Compatible with HTL, TTL, RS422, SIN/COS, SSI, BiSS, Hiperface, EnDat 2.1, CANopen

## NORD DRIVESYSTEMS Group

- ▶ Family business from Bargteheide near Hamburg with 4,800 employees
- ▶ Drive solutions for more than 100 branches of industry
- ▶ 7 production locations worldwide
- ▶ Present in 98 countries on 5 continents
- ▶ More information on: [www.nord.com](http://www.nord.com)

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