



# SINAMICS V20

## Smart Access Module

# SINAMICS V20 Smart Access Module

## Commissioning, operation and diagnostics at your fingertips

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### Safe & convenient access

- To the drive even if installed in difficult-to-access areas
- No cable necessary due to wireless one-to-one connection to mobile device or PC

### Set up in less than one minute

- No apps/downloads required
- Operates with any of the common browsers and with any end device

### Simple operation

- Due to intuitive/guided user interface
- Look & feel of an app
- Higher functionality than BOP

### All-in-one solution

- All functions are provided by the integrated web server
- Independent of the hardware and operating system
- Upgradable firmware and language packages



# SINAMICS V20 Smart Access Module

## Connect your mobile/end device in less than one minute

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1



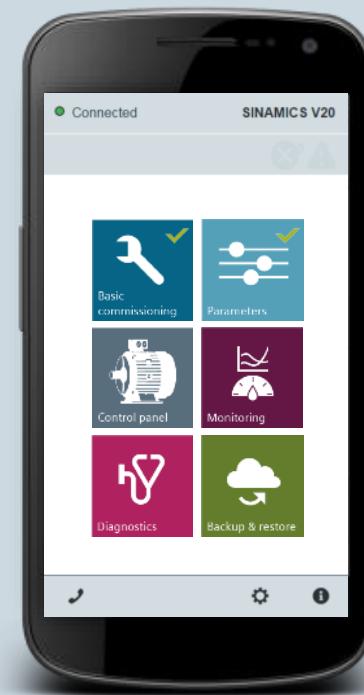
Mount Smart Access onto  
SINAMICS V20 and  
switch on the module

2



Search SINAMICS V20  
Smart Access in your  
Wi-Fi networks

3

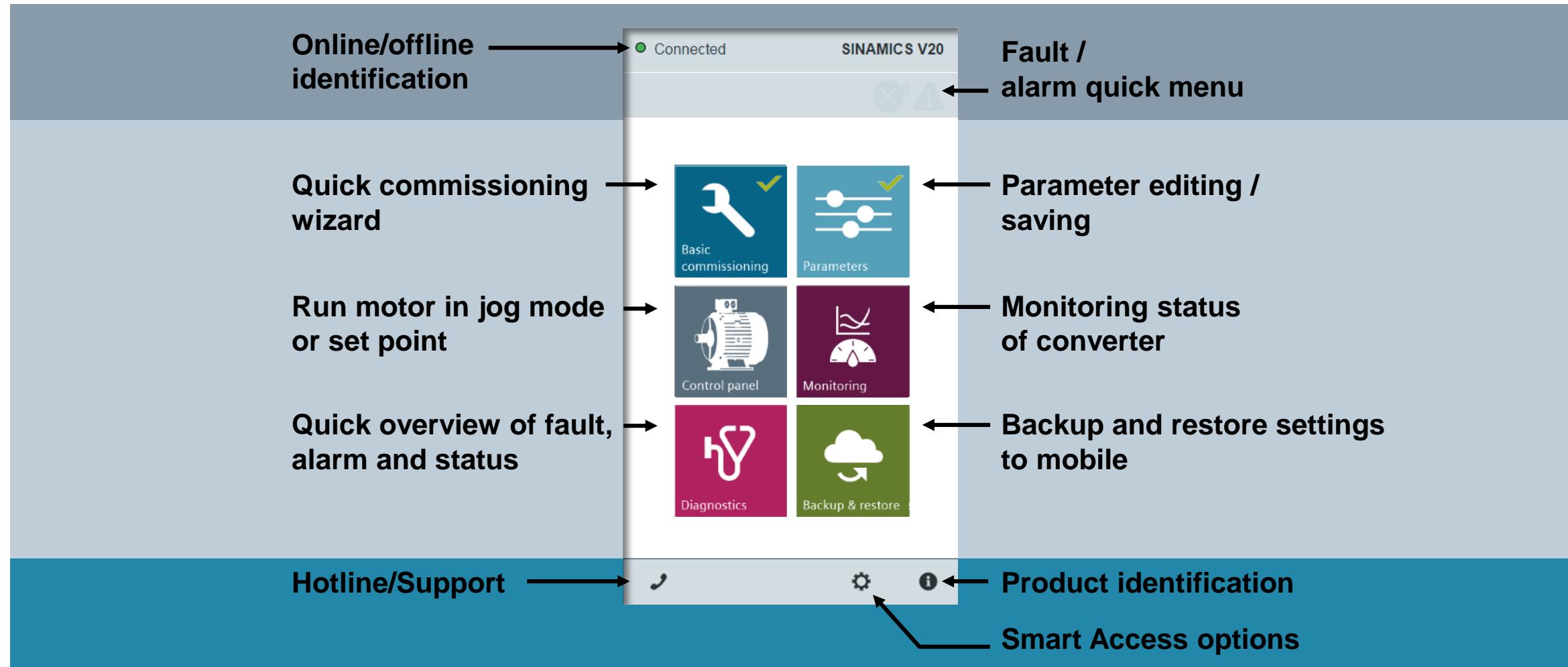


Open browser to access  
the homepage

# SINAMICS V20 Smart Access Module

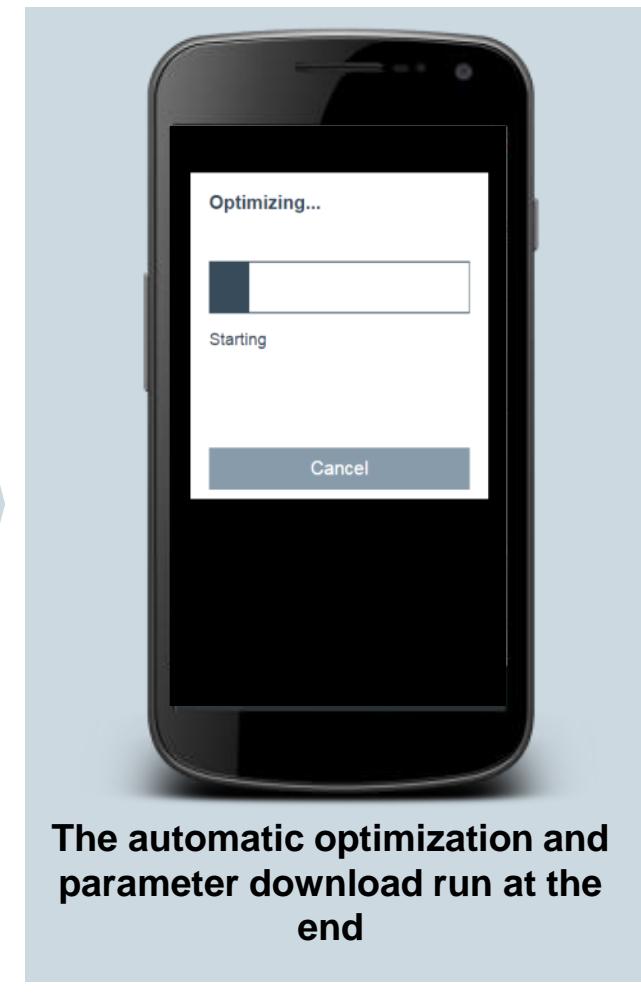
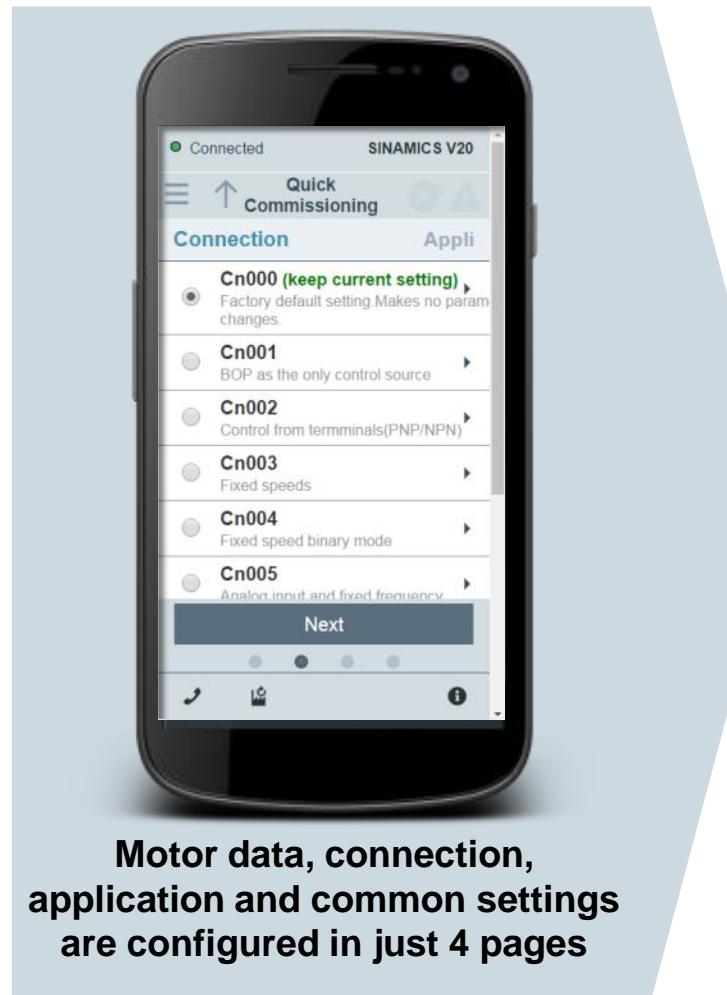
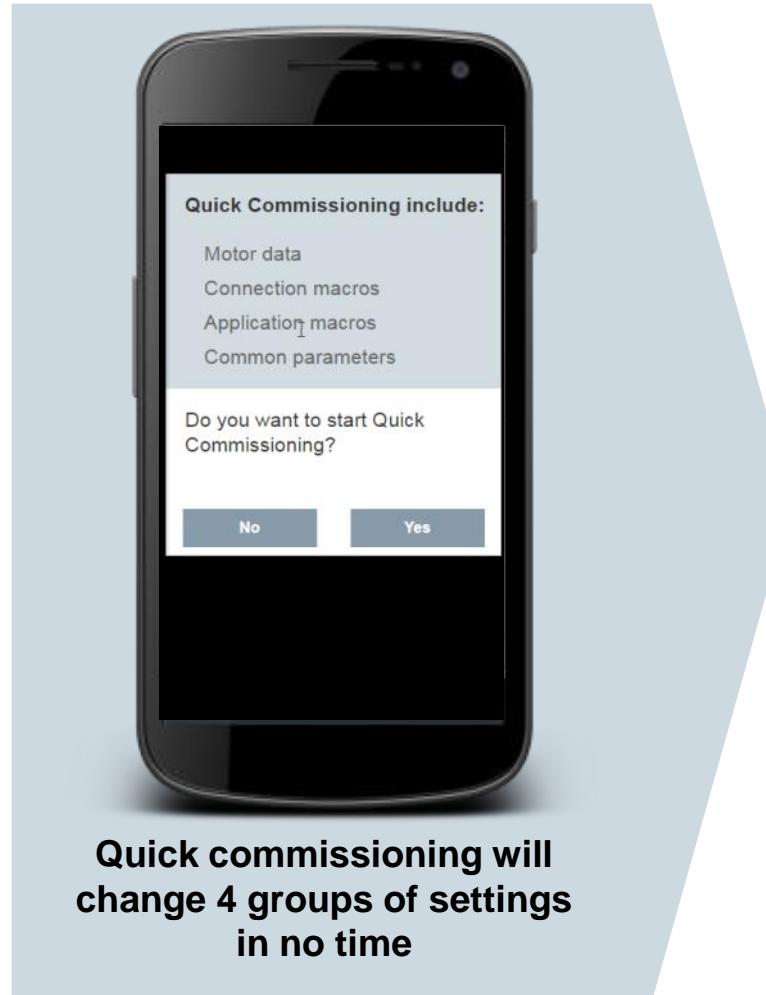
## Provides all the necessary functions in one device

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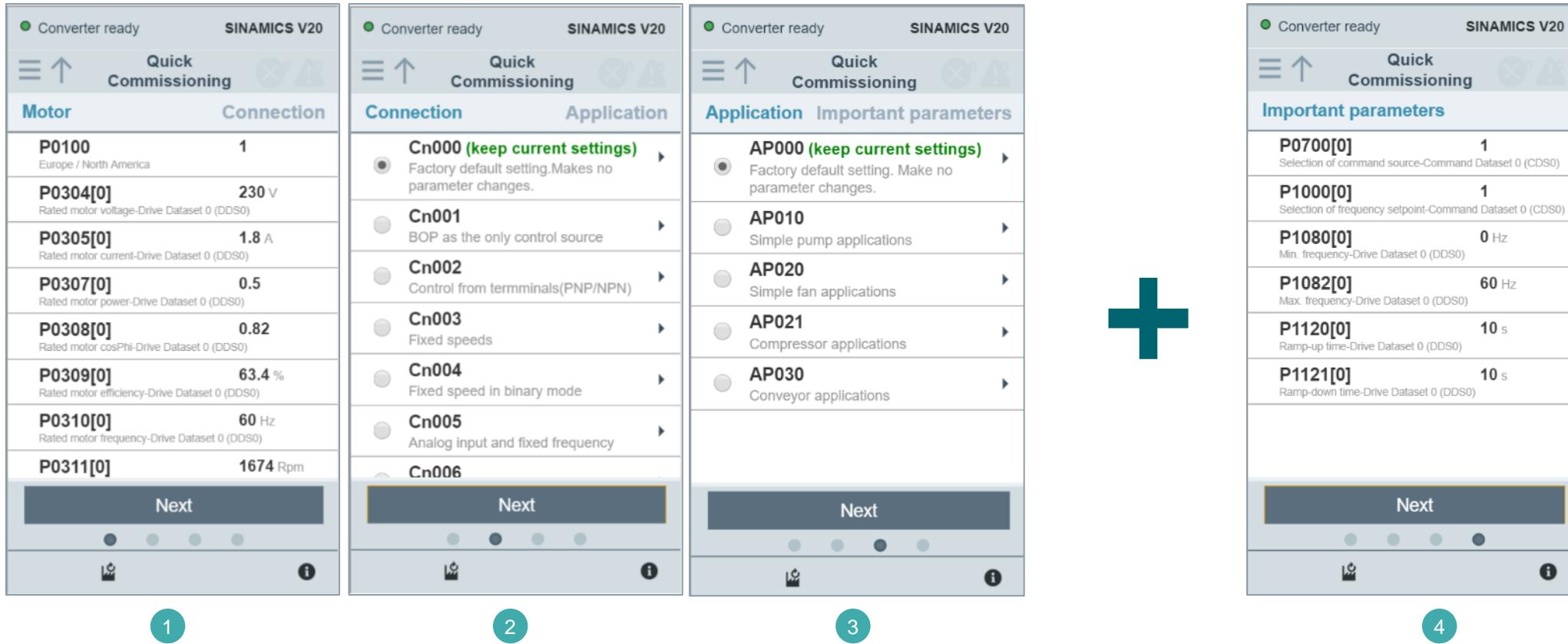
# The quick commissioning wizard guides customers when setting up the basic drive system

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# Optimization Quick setup

Now there are 4 steps in the quick setup. Users can set the common parameters in the process.

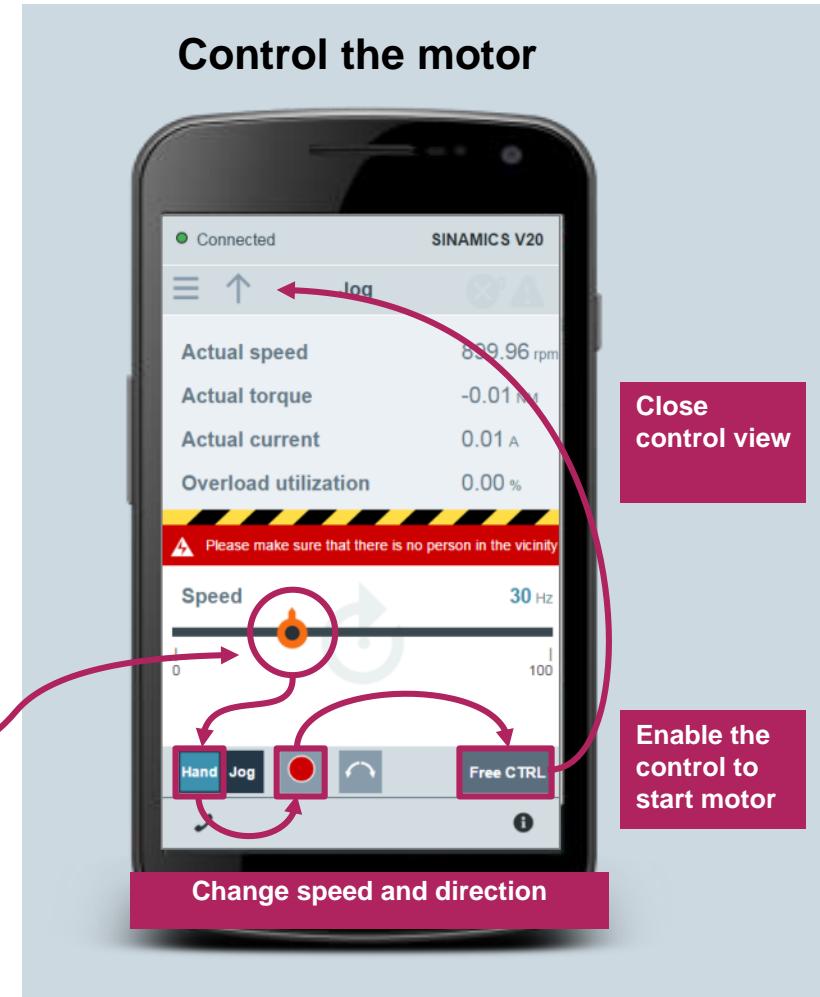
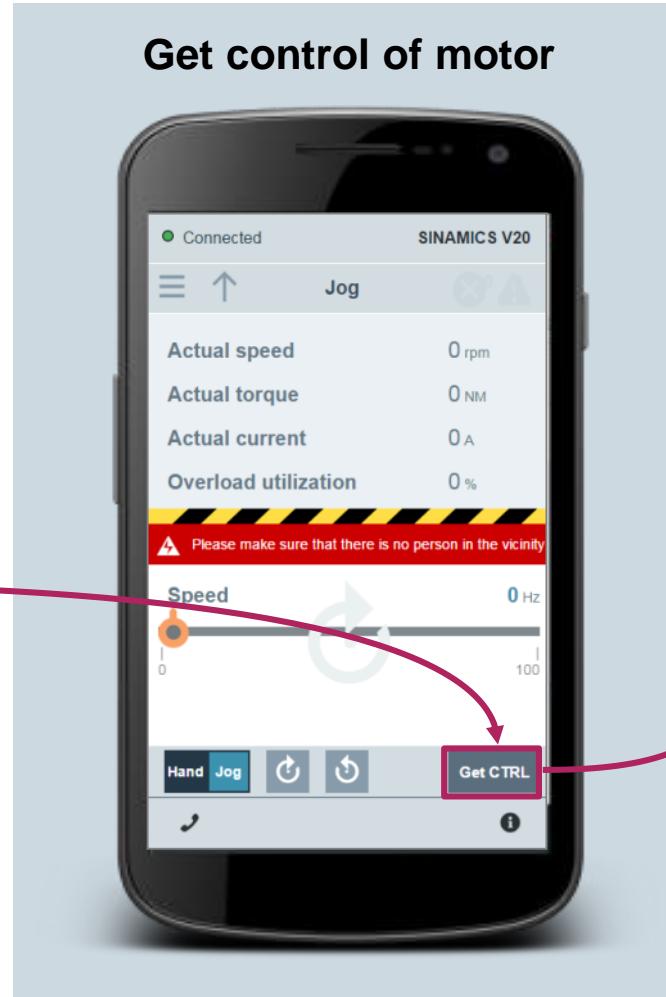
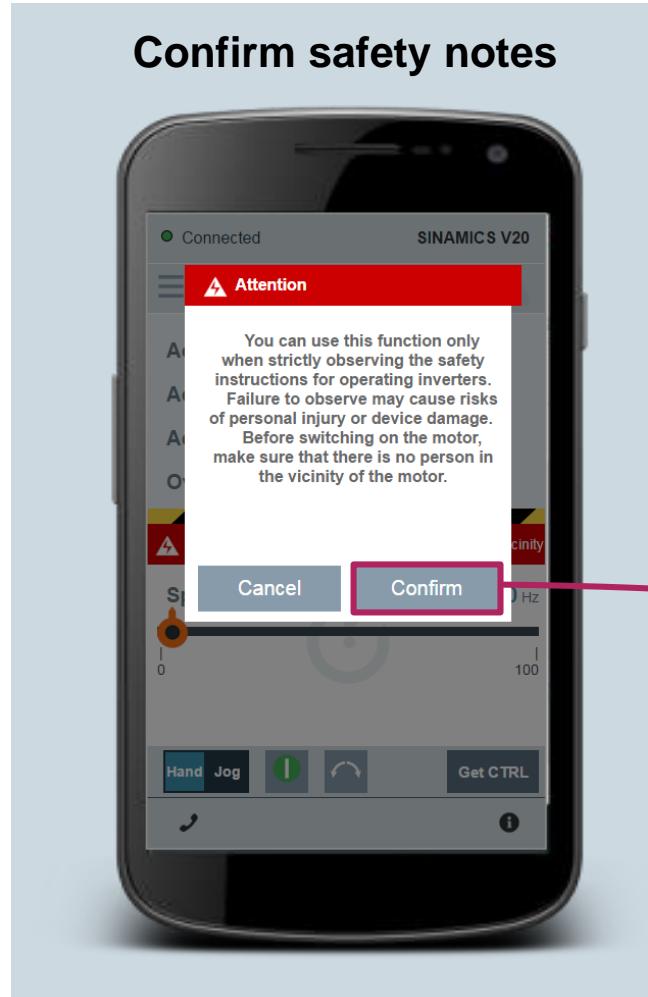


The diagram illustrates the four steps of the Quick Commissioning process for SINAMICS V20. Each step is represented by a screen with a 'Next' button and a progress bar.

- Step 1: Connection**  
Shows basic connection parameters:
  - P0100: 1 (Europe / North America)
  - P0304[0]: 230 V (Rated motor voltage-Drive Dataset 0 (DDSO))
  - P0305[0]: 1.8 A (Rated motor current-Drive Dataset 0 (DDSO))
  - P0307[0]: 0.5 (Rated motor power-Drive Dataset 0 (DDSO))
  - P0308[0]: 0.82 (Rated motor cosPhi-Drive Dataset 0 (DDSO))
  - P0309[0]: 63.4 % (Rated motor efficiency-Drive Dataset 0 (DDSO))
  - P0310[0]: 60 Hz (Rated motor frequency-Drive Dataset 0 (DDSO))
  - P0311[0]: 1674 Rpm
- Step 2: Application**  
Shows application selection:
  - Cn000 (keep current settings): Factory default setting. Makes no parameter changes.
  - Cn001: BOP as the only control source
  - Cn002: Control from terminals(PNP/NPN)
  - Cn003: Fixed speeds
  - Cn004: Fixed speed in binary mode
  - Cn005: Analog input and fixed frequency
  - Cn006
- Step 3: Important parameters**  
Shows important parameters:
  - AP000 (keep current settings): Factory default setting. Make no parameter changes.
  - AP010: Simple pump applications
  - AP020: Simple fan applications
  - AP021: Compressor applications
  - AP030: Conveyor applications
- Step 4: Final parameters**  
Shows final parameters:
  - P0700[0]: 1 (Selection of command source-Command Dataset 0 (CDS0))
  - P1000[0]: 1 (Selection of frequency setpoint-Command Dataset 0 (CDS0))
  - P1080[0]: 0 Hz (Min. frequency-Drive Dataset 0 (DDSO))
  - P1082[0]: 60 Hz (Max. frequency-Drive Dataset 0 (DDSO))
  - P1120[0]: 10 s (Ramp-up time-Drive Dataset 0 (DDSO))
  - P1121[0]: 10 s (Ramp-down time-Drive Dataset 0 (DDSO))

# Control the motor directly from your end device and test the settings

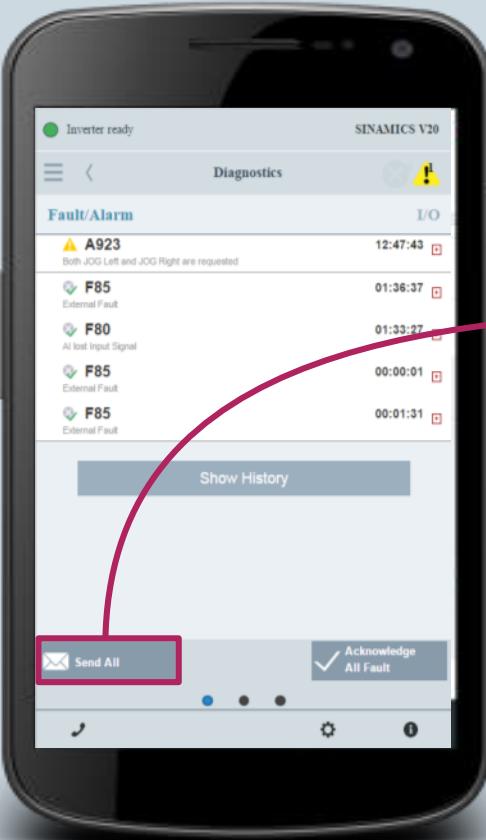
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# Quick overview of faults, alarms and status

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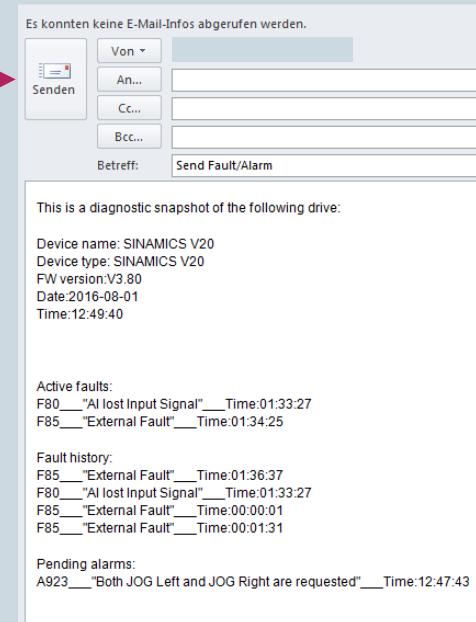
## Overview of active faults and alarms



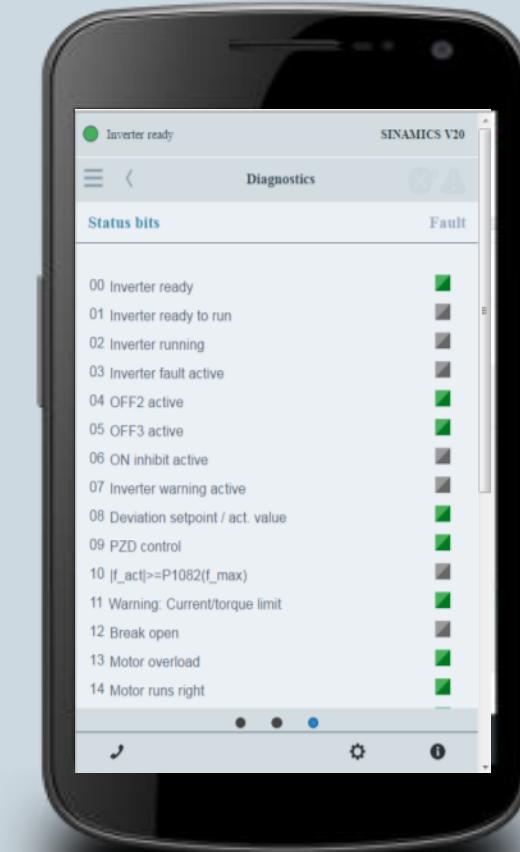
## Automatic creation of status e-mails

Contains information about the drive, faults and alarms.

Can be directly transferred to your local service company.



## Overview of the status bits



Basic commissioning



Control panel



Diagnostics



Parameters



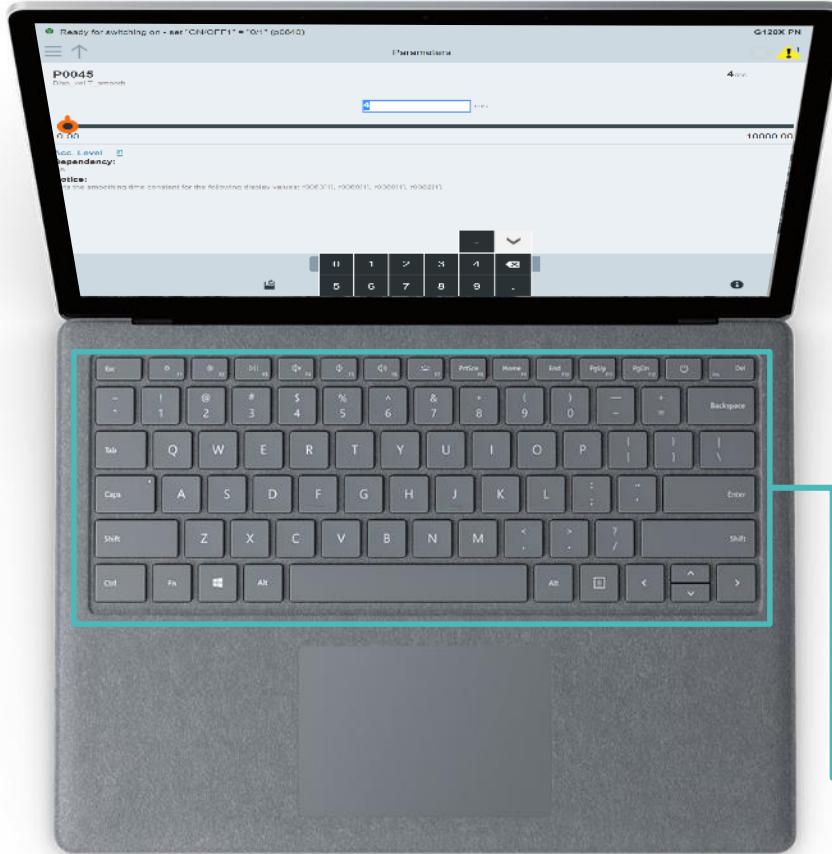
Monitoring



Backup & restore

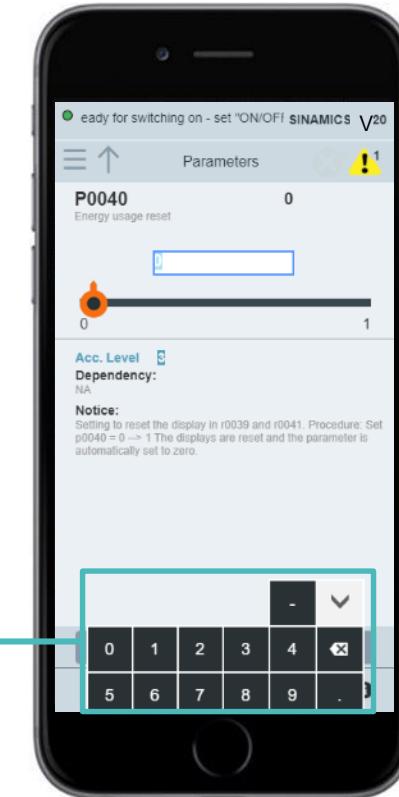
# Optimization

## Support physical keyboard on PC



### Soft keyboard support

In the past, users could only use the built-in soft keyboard for input. This makes the input when commissioning with a computer inconvenient



### Physical keyboard support

A lot of engineers prefer to use Smart Access by their laptop. Now users can enter by using a hard keyboard.

# Commissioning, operation and diagnostics at your fingertips

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