



NCP[®] 4.3

Release note for version 4.3.1

Dated 21.11.2023

- + Added network installation
- + Added new Frame sizes PLQE040 and PLFE055
- + Motor database has been extended (Siemens series 1FL2, Oriental motor stepper motors)
- + Bug fixes:
 - Custom load input: adding segment via distance
 - CSV export: time interval has been corrected
 - Output of the fatigue strength in number of cycles / hours has been fixed
 - Further small corrections have been made

Release note for version 4.3, dated 30.05.2023

Innovations and extensions

- + Extended motor sizing: possible on the basis of the motor characteristics for servo and stepper motors
- + Intuitively enter your own motors
- + Extended motor database (over 19,000 motors)
- + Application-related improvements
 - Traction drive: accommodation of the Neugart wheels at the NGV gearbox
 - Winding application: any scattering of torques eliminated
 - Thrust crank: position check corrected (when using more than one segment, incorrect position information may have been displayed, but calculated correctly)
 - Transmission elements and application belts: Standardisation of designations (FV)

- Rack / Pinion: display of the feed force in the graphic

+ Load import of motor trace files

- Consideration of the mass inertias of motor and gearbox as well as the gearbox losses for a more precise design
- Selection help when assigning the values to the columns

+ Revised documentation with extended user information, significantly improved readability

+ Increasing the calculation speed, especially with the load filter

+ Sample calculations per application can be loaded via Help menu

+ Improved usability

- Start window with simple selection of new or already performed calculations, news are displayed
- Open files via drag'n drop
- Up to ten calculations per project file (previously five)
- Saving the mass inertia calculations in the drive trains even with self-defined cycles
- Inclusion of the static bearing safety in the graphical calculation results: safer design
- Load of Lambda in the gearbox database
- Direct input of the limit values in the load capacity filter
- The product code in the message area can be used to jump directly to the TDF
- Value entry simplified ("0" is automatically overwritten)
- Improved installation options with multi-user operation
- Improved comments section
- Load case editor: copy and paste of several segments possible
- Display of safety in the results area more meaningful (1 = min.)

+ Improvement of the calculation accuracy:

- Revised calculation of bearing life time
- More precise calculation of the gear weight according to the motor to be mounted
- Consideration of losses during motor trace import
- Motor sizing based on characteristic curves