



Autoparameterization

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Customer benefits

- ▶ Reduced complexity and parameterization time during commissioning
- ▶ The soft starter has a self-teaching function that selects the parameters in a way, so that the starting current of the application is maintained as low as possible in order to reach the desired ramp up time and guaranteeing a successful start.
- In case that the load characteristics change, the soft starter detects this during start up and the parameters are adjusted accordingly.





How to use it

- After setting up the language, date and time during the first power up, you can directly continue with the autoparameterization and activate it.
- ▶ Alternatively: Parameters → Soft starter → Parameter set 1 → Autoparameterization
- ▶ You can choose to enter only the desired starting time of the application or also an additional (optional) current limiting value.
- ▶ This function remains active, so that the best soft starter settings are guaranteed for the starting procedure.
- The autoparameterization has no effect in the stopping parameters. These settings need to be addressed by the user as a normal parameterization.



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Pump cleaning*

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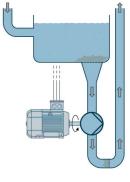
Customer benefits

- ▶ Enables the user to do maintenance and cleaning procedures in pumping systems:
 - Debris, tissue paper and other solids collect themselves in the impellors of the pumps, especially in sump pumps. These can be cleaned / removed with the pump cleaning function.
- ➤ The soft starter initiates a cleaning function, where the soft starter starts the motor forward for a couple of seconds and then the direction of rotation is changed to a backwards operation also for a coupe of seconds. This process is then repeated several times (user defined).
- ▶ The application runs then normally and maintenance costs can be saved.

How to use it

- ▶ You find the pump cleaning function as part of the condition monitoring functions.
- ► The user defines the number of cycles (1x forward + 1x backward) and the time of a half cycle.
- ▶ The same starting parameters of the soft starter for normal operation can be used for the pump cleaning function. If others are required, for example a stronger start, a second parameter set can be used.
- No additional hardware is required, since the backwards motion is done with the creep speed function (⁻√¹₂ of the torque). However, a stronger version (full torque) of the pump cleaning can be used when combining it with the reversing operation (reversing contactors required). See next slide.
- ▶ The user requires only to give a "start pump cleaning" command, everything else is done by the soft starter.

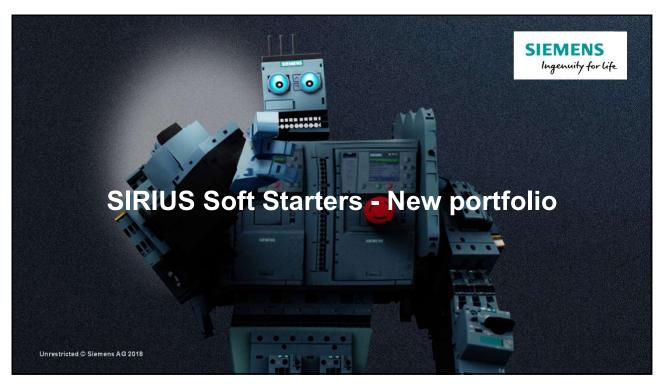
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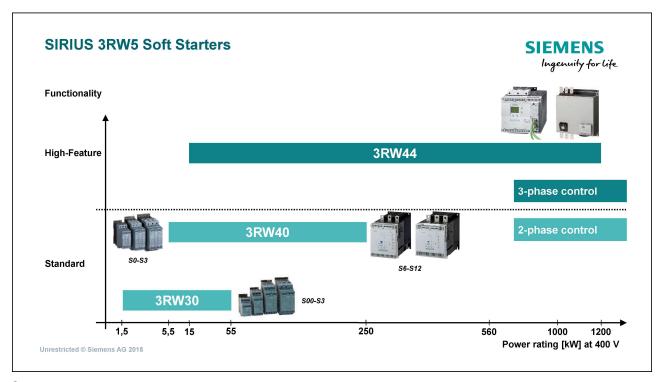




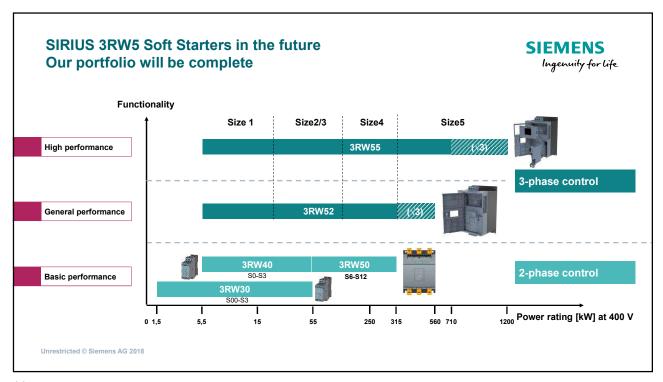


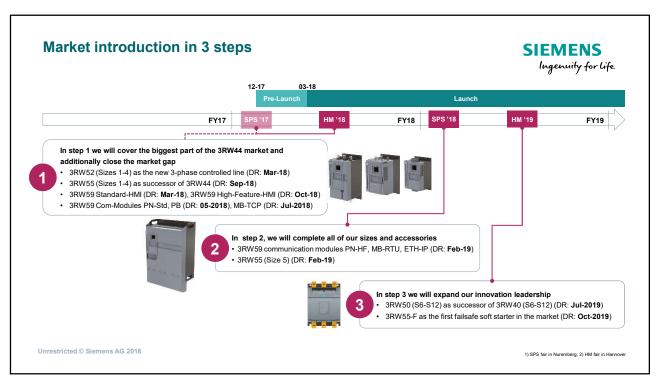


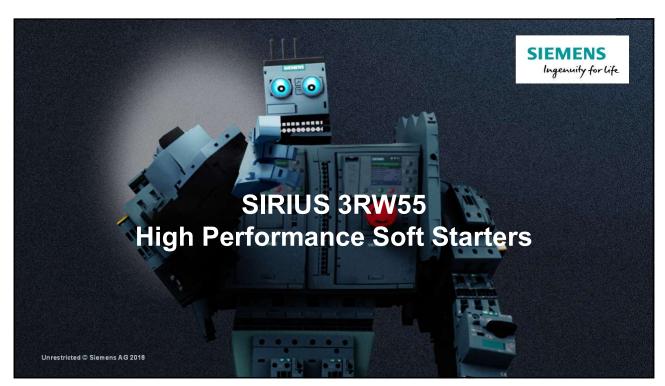






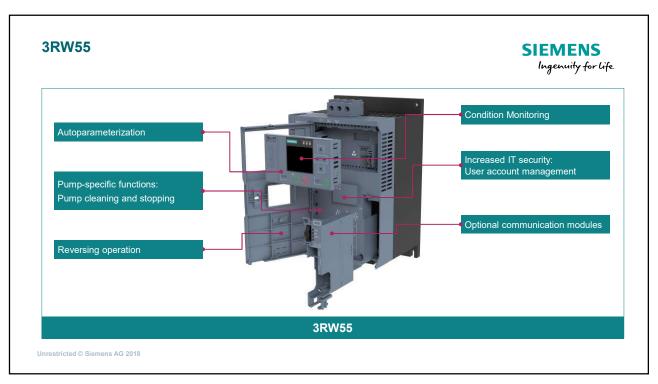


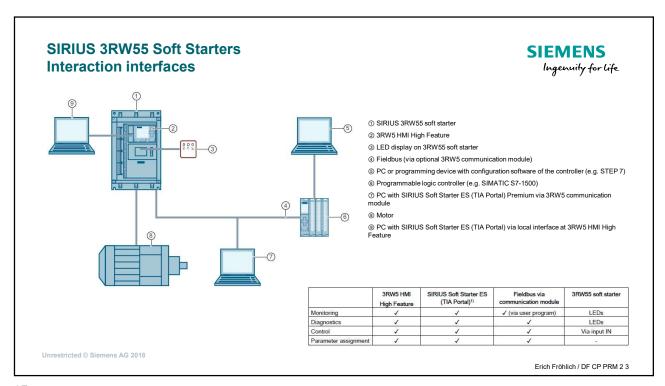


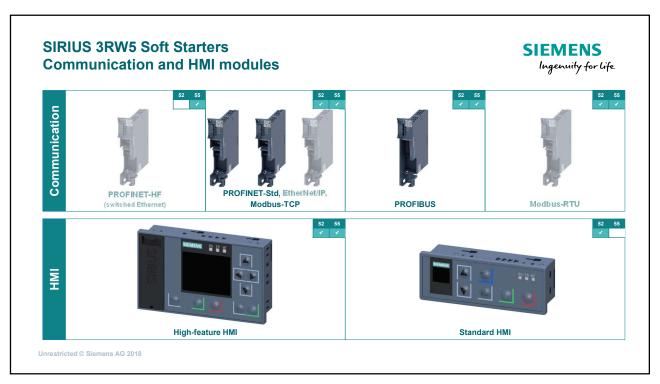


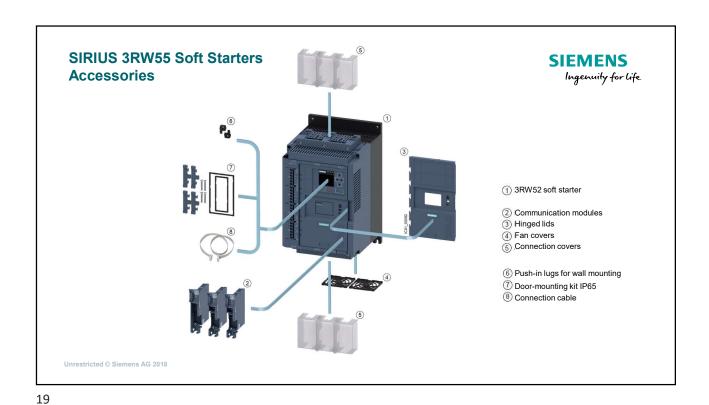




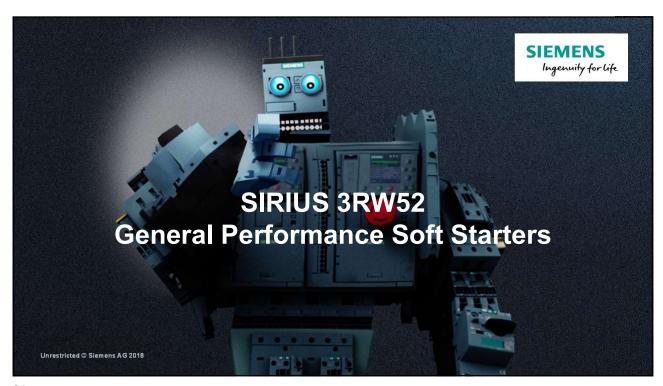




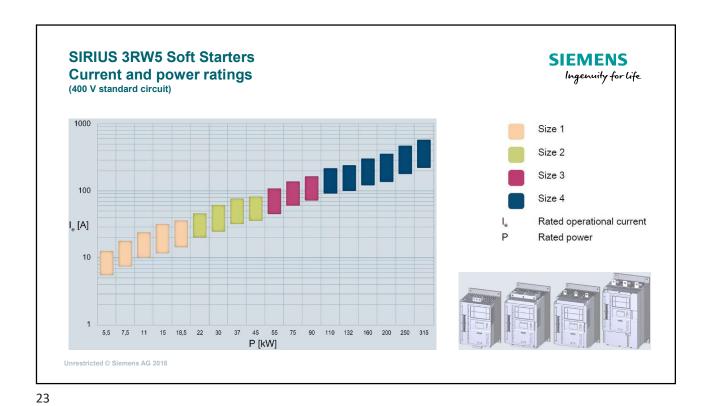




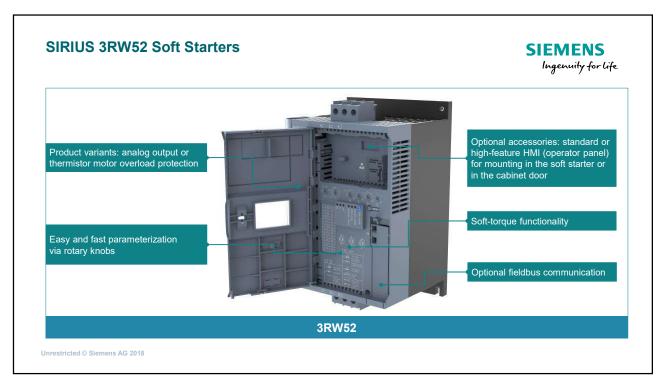
SIRIUS 3RW55 Soft Starters SIEMENS High performance Ingenuity for life Top highlights Feature / Function Benefit Easy and adaptive commissioning Autoparameterization even in changing load profiles Hybrid technology and 3-phase Minimal heat dissipation and motor control symmetric/optimal motor control TIA-Integration – communication Efficient engineering and highest module, operator panel optional flexibility in many automation fields Operator panel with color display, High flexibility in user-interface and local Ethernet interface, micro-SD intuitive menu structure Reduced mechanical stress and Pump stopping and Soft Torque optimal pump stopping Unrestricted © Siemens AG 2018

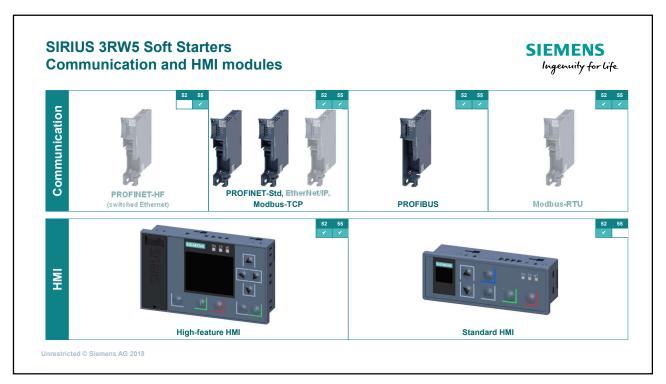




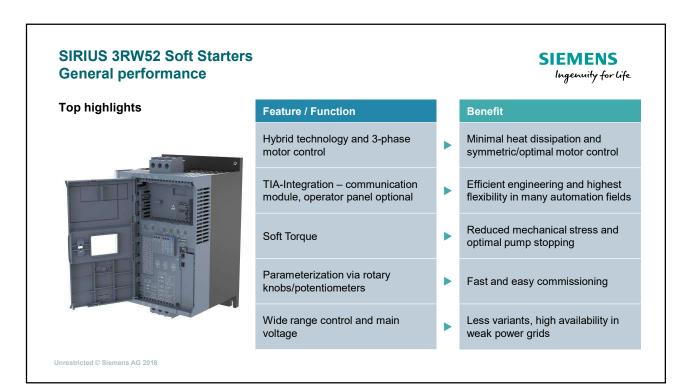


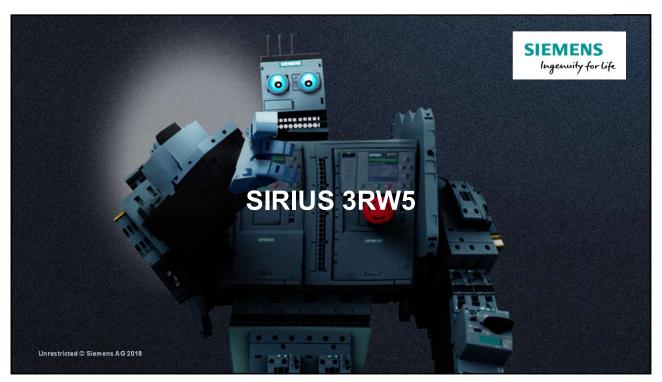
SIRIUS 3RW52 Soft Starters SIEMENS Interaction interfaces Ingenuity for life 3RW5 HMI 3RW5 HMI SIRIUS Soft Start- Fieldbus via 3RW5 3RW52 soft starter communication module er ES (TIA Portal)1 High Feature 10+ 2 LEDs Monitoring ✓ (via user program) Diagnostics LEDs Control Via input IN Parameter assign-_2), 3) ment Via local interface at 3RW5 HMI High Feature or via 3RW5 communication module.
 Analog output (for device version with analog output only) and ON / RUN relay output
 Station address for PROFIBUS is adjustable. 3 (8) 4 6 SIRIUS 3RW52 soft starter PC with SIRIUS Soft Starter ES (TIA Portal) Premium via 3RW5 communication module ⑦ ⑧ LED display on 3RW52 soft starter Fieldbus (via optional communication module) PC with SIRIUS Soft Starter ES (TIA Portal) via local interface at 3RW5 HMI High Feature PC or programming device with configuring software of controller (e.g. STEP 7)
Programmable logic controller (e.g. SIMATIC S7-1500) 3RW5 HMI High Feature (accessories) 3RW5 HMI Standard (accessories) Unrestricted © Siemens AG 2018

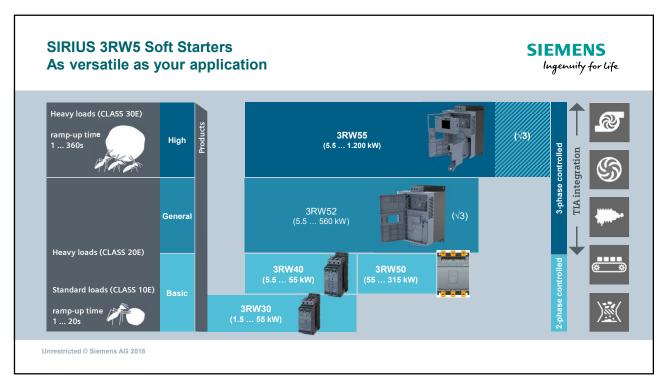


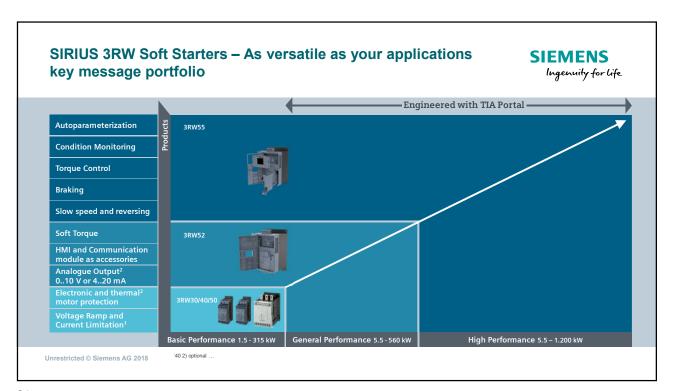


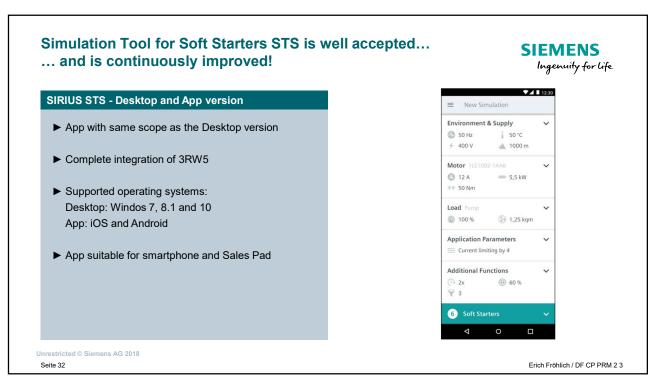




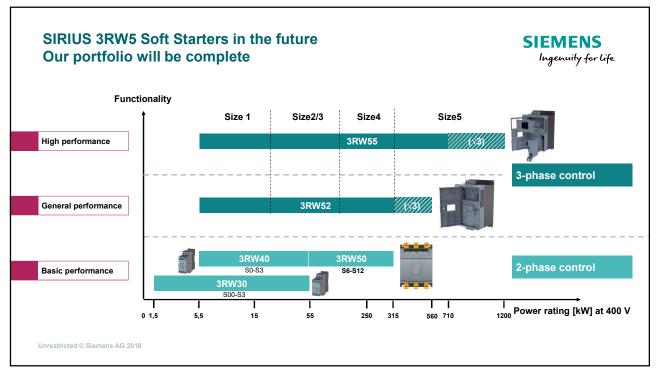












Thank you for your attention





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