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What's new in SIZER V3.20?

Drives / motor starters

Update

- SINAMICS S120 - MLFB of the CF card updated to FW5.2

- Update of the induced current requirement for SINAMICS S120 Booksize, C, D type
- Update of the circuit breakers for MICROMASTER 430 and 440
- Update of the line filter C1 for G120X, FS D-F
- For the SINAMICS S120 Cabinet Active Line Connection Module and Basic Line Connection Module in liquid cooling as well as for the SINAMICS S120 Cabinet-2 Active Line Connection Module, option L25 circuit breaker in withdrawable unit design has been permitted instead of a fixed mounted circuit breaker as long as the associated rated current is ≥ 800 A.
- For the SINAMICS S120 Cabinet Basic Line Connection Module in liquid cooling, option L13 line contactor (for connection currents < 800 A) has been permitted as long as the associated rated current is < 800 A.
- For the two other SINAMICS S120 Cabinet Line Connection Module and the SINAMICS S120 Cabinet-2 Active Line Connection Module, option K76 auxiliary power generation (in the Line Connection Module) has been permitted.
- For SINAMICS S120 Chassis-2 / Cabinet-2, the pulse frequencies and output frequencies have been expanded by 8 kHz with current controller cycle clock 125 µs and max. 550 Hz output frequency.

Error correction

- The 2D dimension drawings have been corrected for the following SINAMICS S120 Motor Modules in cabinet version: 6SL3725-1TE41-0AA3, 6SL3725-1TE412-AA3, 6SL3725-1TE41-4AA3, 6SL3725-1TE41-4AS3, 6SL3725-1TG381-AA3, 6SL3725-1TG41-0AA3, 6SL3725-1TG41-3AA3, 6SL3725-1TG41-6AP3.

Motors, encoders and gearboxes

New

- Addition of the SIMOTICS GP/SD 1LE1 motors with Premium insulation system (1LE1.83) with the capability of operating these up to 690 V line voltage on the converter.
- Addition of the SIMOTICS S-1FK2 servomotors with S120.
- Addition of the SIMOTICS M-1PH3 with S120.

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Update

- Update of the 1FG1 combination of parallel shaft gearbox in conjunction with motor shaft heights 80 and 100 and hollow shaft with shrink disk.
- Update of the planetary gearbox assignment for 1FT7.
- SENDIX encoders - product merger of the SIMOGEAR encoders.
- Due to the phase-out of the 1LA and 1LG motor series, the remaining motors of the 1LA5, 1LG6, 1LA7 and 1LA8 (incl. 1PQ8, 1LL8, 1LH8) series have been removed.
- Due to the phase-out of the 1MD5 and 1PS motor series, the discontinued motors of the 1PS0, 1PS1, 1PS4, 1PS5 and 1MD5 series have been removed.
- Update of the basic type data and extensions of the configuration options for the SIMOTICS SD 1LE5 series (including energy data, additional terminal box position and type of construction).
- The selection of the Kübler Sendix rotary pulse encoder for the 63 and 71 frame sizes for the SIMOTICS GP 1LE1 motors has been permitted.
- Update of some data for 87 Hz operation of the SIMOTICS GP/SD 1LE1.

Error correction

- For the SIMOTICS SD 1LE5 motors in frame sizes 315 and 355, the stored continuous torque characteristics had to be corrected based on the results of additionally performed system tests.
- Moments of inertia have been corrected for some SIMOTICS GP/SD VSD4000-Line motors.

System

Update

- The motors of the SIMOTICS GP/SD VSD4000-Line series can now also be dimensioned on the SINAMIICS S120 Booksize.
- The motors of the SIMOTICS GP/SD VSD10-Line series can now also be dimensioned for line voltages 500 V to 690 V on the SINAMICS G130, SINAMICS G150, SINAMICS S150, SINAMICS S120 AC/AC, SINAMICS S120 DC/AC Chassis/Cabinet converter series.
- The dimensioning of SIMOTICS GP/SD 1LE1 motors with Basic/Advanced insulation system on converters with unregulated infeed and 500 V line voltage has been blocked because, without additional measures on the converter, the DC-link voltage can reach impermissible high values during operation with brake chopper or V_{DC} controller.
- The dimensioning of SIMOTICS XP 1MB1 motors on converters with unregulated infeed and 500 V line voltage has been blocked because, without additional measures on the converter, the DC-link voltage can reach impermissible high values during operation with brake chopper or V_{DC} controller.

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Controllers

Update

- SIMOTION: Dimensioning based on SIMOTION V5.3 SP1 / SINAMICS Integrated V5.2
- SIMATIC S7-1500: Revised calculation model for controller utilization / OB1 extension. (For details see the online help at "SIMATIC S7-1500" > "Controller dimensioning procedure".)
- SINUMERIK: Effective immediately, it is possible to configure SIMOTICS L 1FN3 motors with the SINUMERIK 828D control system. The motors are operable as of FW 4.8 SP4.

Error correction

- If "Extended Functions" is selected in the Safety Integrated axes of the SINUMERIK 828D control system with a TM54F configured, the number of safety axes is now also displayed. The required options now appear as a result in the bill of materials.
- When the SINUMERIK 828D control system is used in conjunction with the SIMOTICS S S120M, the auxiliary axis is not enabled as an external PLC and cannot be used. Configuration of this constellation has been excluded.
- The current values of the SINUMERIK HT8 handheld terminal have been corrected.