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Greater availability and extended flexibility for modular drive system

- **Improved mechanical and electrical design for Sinamics S120 Chassis-2**
- **Chassis with smaller standard footprint and up to 60 percent lower width**
- **Benefits of innovated Sinamics S120 Chassis-2 applied to type-tested ready-to-use cabinet solution Sinamics S120 Cabinet Modules-2**

Siemens has adapted the electrical and mechanical design of the Sinamics S120 Chassis-2 to meet today's and tomorrow's market requirements. The new frequency converters are designed to meet the very highest demands with state-of-the-art components, an innovated cooling concept with speed controlled fan and is like always type and system tested to ensure the very highest reliability and availability. Added to these benefits the derating is minimized, for example more than halved at low output frequencies. Overall the electrical design was adapted to allow simple Engineering with minimal derating while increasing the life time even under worst case conditions. Supported with additional functions such as Condition Monitoring to ensure longest possible operation time with the ability to plan maintenance based on the real requirement of the application.

The devices themselves are both lighter and smaller, and compatible to all their predecessors. Largely due to the improved electrical properties and the new robust mechanical design, the new Sinamics S120 Chassis-2 devices can be simply integrated into existing plants. The DataMatrix code provided on the type plate allows technical data and certificates to be accessed at any time – directly opening up the possibilities of Industrie 4.0 for the user. The converters are particularly suited for dynamic applications which benefit from the combined DC-Link to improve the energy efficiency in the process like steel mills, paper mills, cranes, conveyors, test rigs and many more.

With its new Sinamics S120 Chassis-2 and Sinamics S120 Cabinet Modules-2, Siemens is addressing changing requirements in the field of high-performance drives over recent years. Not only do users nowadays expect simplified engineering, installation and integration into their own in-house solutions, they also expect to pay lower operating costs. At the same time, the requirements imposed on frequency converters are growing in step with complex new applications. With its innovated Sinamics S120 Chassis-2 devices, Siemens is offering its customers new features and functions designed to provide extreme flexibility and efficiency. The high-performance converters are also designed to enable optimum adjustment to different sectors of industry and all kinds of application.

A particularly impressive feature of the new power modules is their compact size. By making some optimizing touches to the design, Siemens has succeeded in reducing the footprint of the new devices by between 30 and 60 percent – depending on the model – compared to the familiar Sinamics S120 devices, providing improved performance with a standardized design over the complete range.

Sinamics S120 Chassis-2 or Cabinet Modules-2 are compatible with the familiar Sinamics and Masterdrives series, guaranteeing simple integration and retrofitting into existing plants. Their improved cooling concept makes for greater availability, while helping to minimize the cost of cooling and prevent unwanted damage. The use of standardized terminals makes for simplified installation and more rapid diagnosis.

Whether users opt for Sinamics S120 Chassis-2 or Cabinet Modules-2, either design can be dimensioned for a precise fit no matter how challenging the application. The standard pulse frequency has been increased to 2.5 kilohertz to provide significantly increased system efficiency and minimized derating. Their high-performance IGBTs and reliable capacitors, robust electronic modules, innovative cooling concept and variable-speed fans as well as type and system testing make Sinamics S120 Chassis-2 and Sinamics S120 Cabinet Modules-2 exceptionally durable while reducing upkeep, downtime and maintenance costs.

The new cabinet system Sinamics S120 Cabinet Modules-2 combines all the innovative benefits of the chassis version for increased flexibility and maximum reliability alongside simplified engineering and improved economy.



Their innovative design and state-of-the-art components make the new high-performance Sinamics S120 Chassis-2 converters exceptionally durable while reducing operating, downtime and maintenance costs.



The cabinet system Sinamics S120 Cabinet Modules-2 combines all the innovative benefits of the chassis in terms of reliability, economy and flexibility to create a type and system-tested ready-to-use solution.



Whether users opt for Sinamics S120 Chassis-2 or Cabinet Modules-2, either design can be dimensioned for a precise fit no matter how challenging the application.

This press release and press pictures are available at www.siemens.com/press/PR2018040231PDEN

For further information on Sinamics S120, please see www.siemens.com/sinamics-s120-innovation

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