

Hannover Messe 2023, hall 9 | booth 53

Siemens Xcelerator: New Sinamics G220 high-performance frequency converter for greater efficiency, easier engineering and faster commissioning

- **Sinamics G220 are the first Sinamics drives to join the Siemens Xcelerator portfolio**
- **Integrated Clean Power technology reduces harmonics by up to 97 percent**
- **Digital twin in Startdrive (TIA) enables testing and optimization of behavior before hardware is available**
- **IIoT module for easy integration into edge and cloud applications**

With Sinamics G220, Siemens is launching a new high-performance frequency converter to join the Sinamics family in the run-up to Hannover Messe 2023. The innovative frequency converters are equipped with so-called clean power technology. This reduces harmonics by up to 97 percent without the need for line harmonic chokes or DC link chokes. As a result, the Sinamics G220 frequency converters are significantly more efficient in terms of space utilization and operation and make engineering much easier. The new frequency converters are also the first Sinamics drives to join of the Siemens Xcelerator portfolio, the Siemens-wide business platform for digital transformation. This is because Sinamics G220 frequency converters are also an integral part of the TIA portal and have a digital twin in Startdrive, the commissioning tool for drives. This allows the behavior of the drive to be tested and optimized before the hardware is available. With the integrated web server, commissioning times can also be significantly reduced. The new converters are also equipped with an IIoT module. This means that Sinamics G220 frequency converters can be easily integrated into cloud and edge applications, which increases the transparency of their applications. Availabilities can thus be optimized, and downtimes

avoided. In the area of cybersecurity, the Sinamics G220 is equipped with Security Integrated as standard, providing secure communication, integrity and authenticity checks to protect against tampered firmware, and User Management & Access Control. Sinamics G220 converters come with a range of hardware options and software functions, allowing them to be flexibly adapted to the respective application cases required. For example, the Sinamics G220 is also available in IP55 and there are special coatings for harsh environments. Thanks to the high-quality components and hardware design, the drive is designed for a long service life. When it comes to Safety Integrated, the new frequency converters reach the next level by meeting SIL 3 requirements. Sinamics G220 are suitable for all industries, but especially for the food & beverage, pharmaceutical, chemical, oil & gas, and marine industries.



The new Sinamics G220 frequency converters are the first Sinamics drives to join the Siemens Xcelerator portfolio.

This press release and press pictures are available at <https://sie.ag/40bWeXn>

Further information on Siemens at Hannover Messe 2023 at www.siemens.com/press/hm23 and www.siemens.com/hannover-messe

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Die **Siemens AG** (Berlin and Munich) is a technology company focused on industry, infrastructure, transport, and healthcare. From more resource-efficient factories, resilient supply chains, and smarter buildings and grids, to cleaner and more comfortable transportation as well as advanced healthcare, the company creates technology with purpose adding real value for customers. By combining the real and the digital worlds, Siemens empowers its customers to transform their industries and markets, helping them to transform the everyday for billions of people. Siemens also owns a majority stake in the publicly listed company Siemens Healthineers, a globally leading medical technology provider shaping the future of healthcare. In addition, Siemens holds a minority stake in Siemens Energy, a global leader in the transmission and generation of electrical power.

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