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Digital Enterprise Virtual Experience at Hannover Messe 2021

High-efficiency motor series from Siemens now consistently available in efficiency class IE4

- **Simotics SD motor series from Siemens is now consistently available in efficiency class Super Premium Efficiency (IE4)**
- **Exceeds increasingly stringent requirements of ErP Directive 2019/1781, which takes effect in two steps in July 2021 and July 2023**
- **Users can meet long-term efficiency standards, save energy, lower operating costs, and reduce CO₂ emissions**

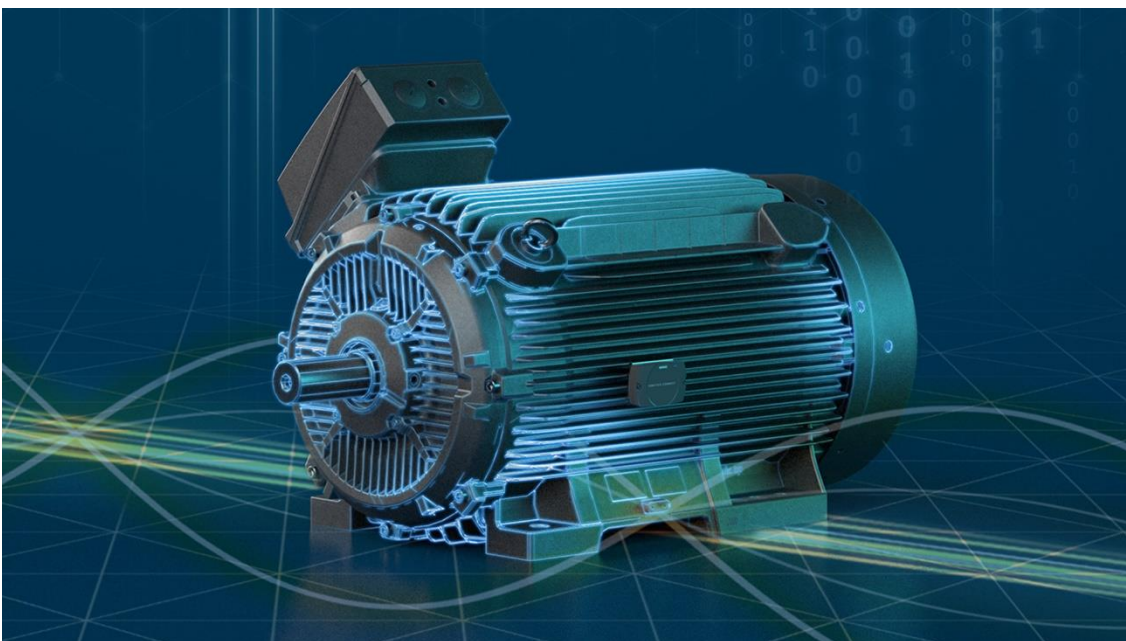
Siemens is presenting the Simotics SD motor series as part of the Digital Enterprise Virtual Experience at the Hannover Messe 2021. The standard version of Simotics SD is offered in the efficiency class Super Premium Efficiency (IE4) across the entire power spectrum from 2.2 to 1,000 kW and for the number of poles 2, 4, as well as from 75 kW for 6 poles and from 55 kW for 8 poles. Simotics SD in IE4 thus exceeds the so-called ErP Directive 2019/1781 (energy-related products) – both the first stage, which will be valid by July 2021, as well as the next, which will apply from July 2023. The directive defines the eco-design requirements for electric motors and speed control systems.

This European directive comes into force in two phases. From July 2021, it requires the efficiency class Premium Efficiency (IE3) for 2- to 8-pole electric motors from 0.75 kW to 1,000 kW. From July 2023, it requires the efficiency class Super Premium Efficiency (IE4) for 2- to 6-pole motors of medium power from 75 kW to 200 kW. In accordance with the regulation, Siemens offers the Simotics SD motor series consistently in IE4 for all affected motors. In addition, however, also for motors with an output of up to 1,000 kW as well as for 8-pole motors from 55 kW, which are still exempt from the second stage from 2023. Users of Simotics motors can thus meet the increasing requirements for energy efficiency and environmental compatibility in the long term.

Highly efficient motors also allow users to save energy, lower their operating costs and reduce CO₂ emissions. Such motors are typically used in the process industry for pumps, fans, compressors, extruders, mixers, agitators, centrifuges, rollers, or winders. This applies primarily to the Water, Wastewater, Chemical, Oil & Gas, Cement, Paper, Marine and Metal processing industries.

The motors of the explosion proof Simotics XP series also exceed the currently required efficiency standards. They are also offered in IE3 and IE4. IE3 is standard in the increased safety (Ex eb) type of protection. This means that the requirements that come into force in 2023 and demand efficiency class High Efficiency (IE2) are also exceeded here. Another example from the Simotics portfolio is the Simotics reluctance motor. This motor is characterized by the highest efficiency levels, comparable to IE4, even in the partial load range. In the system with a Sinamics converter, it exceeds the minimum requirements of the highest defined system efficiency class IES2.

Highly efficient motor technologies can sustainably reduce the energy demand of industry and contribute to lowering global CO₂ emissions. After all, according to the German Electrical and Electronic Manufacturers' Association (ZVEI), around 70 percent of the energy demand in industry is required by electric motors.



Simotics SD is offered in Super Premium Efficiency (IE4).

This press release and a photo are available at <https://sie.ag/2Pk3zEP>

For further information regarding the Siemens Digital Enterprise Virtual Experience at Hannover Messe 2021 please see www.siemens.com/press/hm21

For further information regarding Simotics SD please see www.siemens.com/simotics-sd

For further information regarding the ErP Directive please see <https://new.siemens.com/global/en/products/drives/topic-areas/energy-efficiency.html>

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