

IE3/IE4 requirements Are you ready?

Basic information

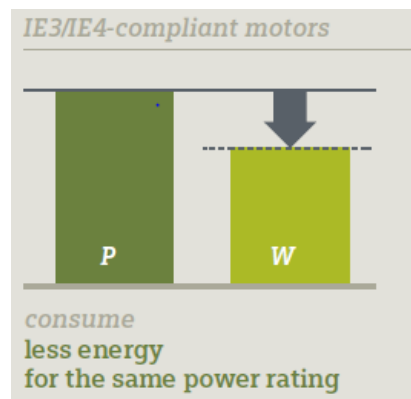
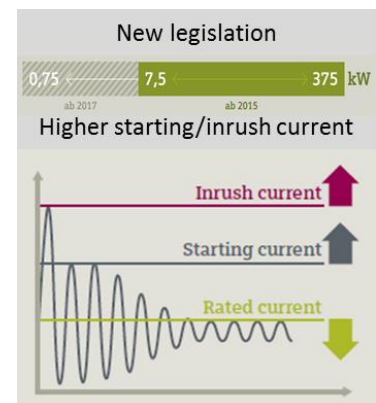
Comprehensive laws have become effective in the European Union with the objective of reducing energy consumption and thus carbon dioxide emissions. This is why manufacturers of machines and systems are intensively trying to answer the question of how they can satisfy the energy efficiency measures as per the standards in the European Economic Area. Standard IEC60034-30 defines the efficiency per performance class for the efficiency classes.

What is the statutory provision? What does this mean?

- Since 01/2015, only motors complying with Energy Efficiency Class IE3 in the output range from 7.5 to 375 kW are permitted for line operation in the European Economic Area
- As of 01/2017, also in the range from 0.75 to 7.5 kW, only IE3 motors can be newly connected to the grid in the European Economic Area
- Stricter statutory rules apply to new systems and retrofits
- New IE3/4 motors result in new requirements for industrial controls due to significantly higher currents during start-up of the motor
- Higher-dimensioned wiring may be necessary

We have researched and taken action for you

- Upgrading to a higher energy efficiency class pays off: Savings in energy costs exceed the investment costs after only 6 months
- IE3/4-compliant motors mean significant cost savings due to lower energy consumption with no change in performance
- SIRIUS industrial controls have been correspondingly optimized for the starting behavior of IE3/4 motors; the usual reliability of motor feeders
- Siemens offers a comprehensive range of IE3/4 motors for every application; the Siemens IE2 motors can easily be replaced due to the uniform shaft height
- We make it easy for you: Configuration manual for industrial controls



Our answer to the increased requirements concerning your machines



"The world of motors is changing and the world of industrial controls has to follow suit. We're not satisfied until our customers are also satisfied."

Peter Hartinger, responsible for development of electromechanical protection devices and feeders

The SIRIUS modular system offers a wide range of IE3/IE4-ready controls

- Contactors
- Solid-state switching devices
- Motor starter protectors/circuit breakers
- Soft starters
- Motor starters
- Compact starters
- Monitoring relays
- Thermal overload relays
- Electronic overload relays

Further product information

- Online Portal www.siemens.com/ie3ready

Are you ready for IE3?

Comprehensive legislation has been passed in the European Union in order to reduce power consumption and carbon emissions.



- Configuration manual for SIRIUS controls with IE3 motors see www.siemens.com/ie3ready, more information/+ industrial controls or as direct link [here](#).
- Designing soft starters using the new "Simulation Tool for Soft Starters": www.siemens.com/softstarter