

**Small – compact – light:  
the new IE3 asynchronous motors**

DRN.. series



## Easy conversion to IEC









Energy efficiency and sustainability are becoming more and more important factors in the development and re-engineering of industry products, especially due to stricter legal requirements. Many countries already have regulations in place that require the use of asynchronous motors in energy efficiency class IE3.

On January 1, 2017, the third stage of Regulation 640/2009 has come into effect in Europe, which demands increased energy efficiency in asynchronous AC motors.

**This means:** As of January 1, 2017, all 2-, 4-, and 6-pole asynchronous motors with a power rating between 0.75 kW and 375 kW that are put on the market in the European Union, in Switzerland, and in Turkey must meet the

requirements for energy efficiency class IE3. Asynchronous motors with less energy efficiency will then no longer be permitted for this power range, with a few exceptions.

**This means that, with a few exceptions, legal regulations that stipulate the use of IE3 asynchronous motors on the grid are already in effect in the following regions.**

Region	Power range
  	0.75 – 375 kW, 2-, 4- and 6-pole
  	0.75 – 373 kW, 2- and 4-pole 0.75 – 261 kW, 6-pole 0.75 – 186 kW, 8-pole
	0.75 – 375 kW, 2-, 4- and 6-pole
	37 – 375 kW, 2-, 4-, 6- and 8-pole

We assume that more countries will increase their requirements on the minimum efficiency of asynchronous motors to energy efficiency class

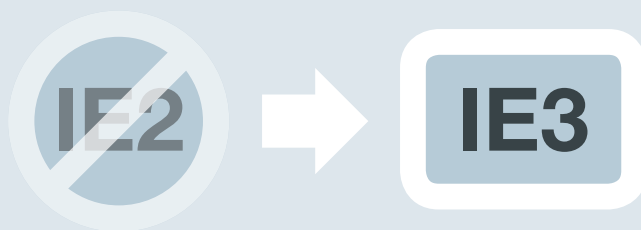
IE3. For more information, go to [www.ie-guide.com](http://www.ie-guide.com)



Motor conversion from IE2 to IE3 "made by SEW-EURODRIVE": same weight and same space requirements.



For detailed information or useful resources for the IE3 motor conversion, go to [www.ie-guide.de/en](http://www.ie-guide.de/en) or [www.sew-eurodrive.com](http://www.sew-eurodrive.com).



## We have the very thing against inertia

We are constantly improving our range of products for you. This is why we now offer an optimized variant of our 4-pole DRN100L4 motor with a power rating of 2.2 kW.

- The inertia of the rotor of the new, optimized DRN100LM4 variant has been reduced by 20%. Since the rated torque and rated power remain unchanged, the motor behaves more dynamically in operation.

- The reduced starting current ratio reduces the load on the protection devices in your system.
- All approvals and certifications will be available for the global motor variant.
- The selection of options and accessories, as well as the price, delivery times and geometric dimensions, remain the same as for the current design.

### How to convert?

The new design is now available and can be included in the planning for new or existing systems. The necessary modifications can be performed with minimal effort as the properties of the new design remain largely the same. If you have any questions relating to this topic, please do not hesitate to contact us.

Get the latest information about DRN.. series IE3 motors at [www.sew-eurodrive.com](http://www.sew-eurodrive.com).

## What does SEW-EURODRIVE offer to simplify the conversion?

SEW-EURODRIVE has developed IE3 motors that can replace IE2 motors easily without

any problems, high expenses, or considerable effort.

Number of poles	Power range
2	0.75 to 7.5 kW
4	0.75 to 225 kW
6	0.75 to 7.5 kW

The weight and dimensions of the new DRN.. IE3 motors have been changed only marginally in relation to comparable DRE.. series IE2 motors from SEW-EURODRIVE, which are used successfully all over the world. And the best thing is: The price of a DRN.. motor differs from the price of a DRE.. motor of the same performance class only in a small number of cases.

A further advantage for you: SEW-EURODRIVE made no compromise with regard to the combinations with gear units, options and other accessories.

### This means

- The new IE3 motors of the DRN.. series can be combined with the same gear units as the IE2 motors of the DRE.. series.
- The entire brake portfolio, including the new function and wear monitoring option /DUE and the unique built-in encoders, can be ordered in combination with DRN.. series IE3 motors.
- The DRN.. motors are available in all power stages in the proven global motor design and are in conformity with all relevant worldwide standards and energy efficiency regulations.

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## How we're driving the world



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