

CANTONI
MOTOR



Turning Energy into **Success**

IE3



Energy Efficient Motors SIE

Comply with the new efficiency classes
for low-voltage three-phase motors

Commission Regulation (EU) No 4/2014
amending Regulation (EC) No 640/2009

Cantoni Motor offers full range of the energy efficiency motors series SIE from 0,75 up to 355 kW in class IE2 and IE3.

SIE motors – technical overview

Frame size	80 to 355
Power range	0,75 kW to 355 kW
Number of poles	2/4/6
Degree of protection	IP55
Voltages	All standard voltages
Frequency	50 Hz and 60 Hz

According to the Commission Regulation (EC) No 640/2009 (introduced in July 2009) the required efficiency class of general-purpose motors are as follows:

New efficiency classes for the low-voltage three-phase motors (IE = International Efficiency).

IE1 = Standard Efficiency

IE2 = High Efficiency

IE3 = Premium Efficiency

COMMISSION REGULATION (EU) No 4/2014 of 6 January 2014 amending Regulation (EC) No 640/2009 implementing Directive 2005/32/EC of the European Parliament and of the Council with regard to ecodesign requirements for electric motors

(1) Article 1 is replaced by the following:

Article 1

Subject matter and scope:

1. This Regulation establishes ecodesign requirements for the placing on the market and the putting into service of motors, including those integrated in other products.

2. This Regulation shall not apply to:

(a) motors specified to operate wholly immersed in a liquid;

(b) motors completely integrated into a product (for example gear, pump, fan or compressor) of which the energy performance cannot be tested independently from the product;

(c) motors specified to operate exclusively:

(i) at altitudes exceeding 4 000 meters above sea-level; (was 1000 meters)

(ii) where ambient air temperatures exceed 60 °C; (was 40 °C)

(iii) in maximum operating temperature above 400 °C;

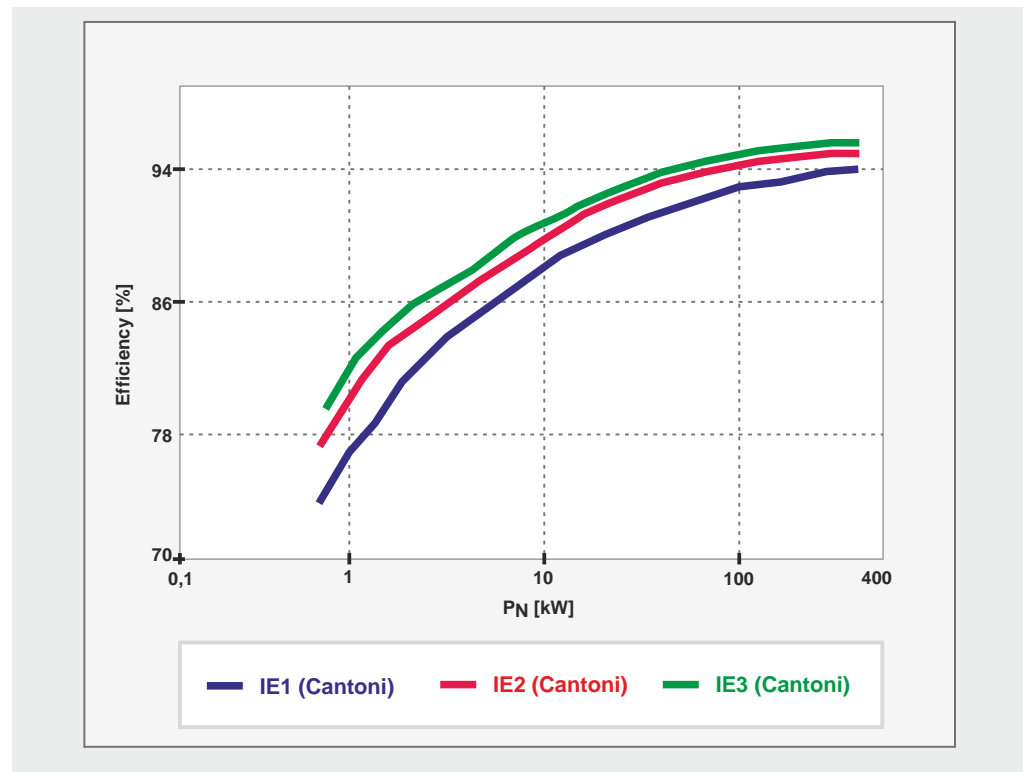
(iv) where ambient air temperatures are less than – 30 °C for any motor or less than 0 °C for a motor with water cooling;

(v) where the water coolant temperature at the inlet to a product is less than 0 °C or exceeding 32 °C; or

(vi) in potentially explosive atmospheres as defined in Directive 94/9/EC of the European Parliament and of the Council;

(d) brake motors.

Cantoni Group Premium Efficiency Motors 3SIE already available.



From 16 June 2011, motors placed for the first-time on the market should have a minimum efficiency class of IE2.

From 1 January 2015: motors with a rated output between 7,5 - 375 kW shall have a minimum efficiency class of IE3, or IE2 if they are equipped with electronic speed control (VSD).

From 1 January 2017: motors with a rated output between 0,75 - 375 kW shall have a minimum efficiency class of IE3, or IE2 if they are equipped with electronic speed control (VSD).

The Regulation establishes Ecodesign requirements for the placing on the market and for the putting into service of motors, including where integrated in other products. The Regulations state that from 1 January 2015, motors with a rated output of 7,5 - 375 kW shall not be less efficient than the IE3 efficiency level, or meet the IE2 efficiency level and be equipped with a variable speed drive.

IE2 + VSD Motor Label

IE2

**EU REGULATION 640/2009
USE WITH VARIABLE
SPEED DRIVE ONLY!**



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