

LV7000-3 Ecodesign – Energy-efficiency information

in accordance with Regulation (EU) 2019/1781, United Kingdom Statutory Instrument SI 2021 No. 745 and standard IEC 61800-9-2

Energy-efficiency-related regulations and standards are gradually being intensified around the world.

The Ecodesign Directive is the framework that sets requirements on all energy-related products within the European Union. Regulations made under this Directive set minimum energy efficiency requirements, ensuring that we reduce the energy consumption and environmental impact of our products. The relevant regulation for motors, AC drives and power drive systems is Regulation (EU) 2019/1781. In the United Kingdom, similar requirements are imposed by Statutory Instrument SI 2021 No. 745.

Motors are classified according to their energy efficiency. AC drives and power drive systems are classified according to their power losses. The **IEC 61800-9-2** standard in accordance with Regulation (EU) 2019/1781 and United Kingdom Statutory Instrument SI 2021 No. 745 defines the IE classes for AC drives and also the IES classes for power drive systems (motor and drive combined).

From July 2021, the minimum requirement for non-regenerative AC drives in the European Union (EU) and United Kingdom (UK) is IE2.

The LV7000-3 products already comply with the strictest requirements of the standard for energy efficiency and are classified as IE2.

The complete drive module (CDM) IE classification is based on drive losses. This includes EMC filters, braking choppers, and other components.

The drive losses are determined according to IEC 61800-9-2 and is based on factory setting with e.g., default switching etc.

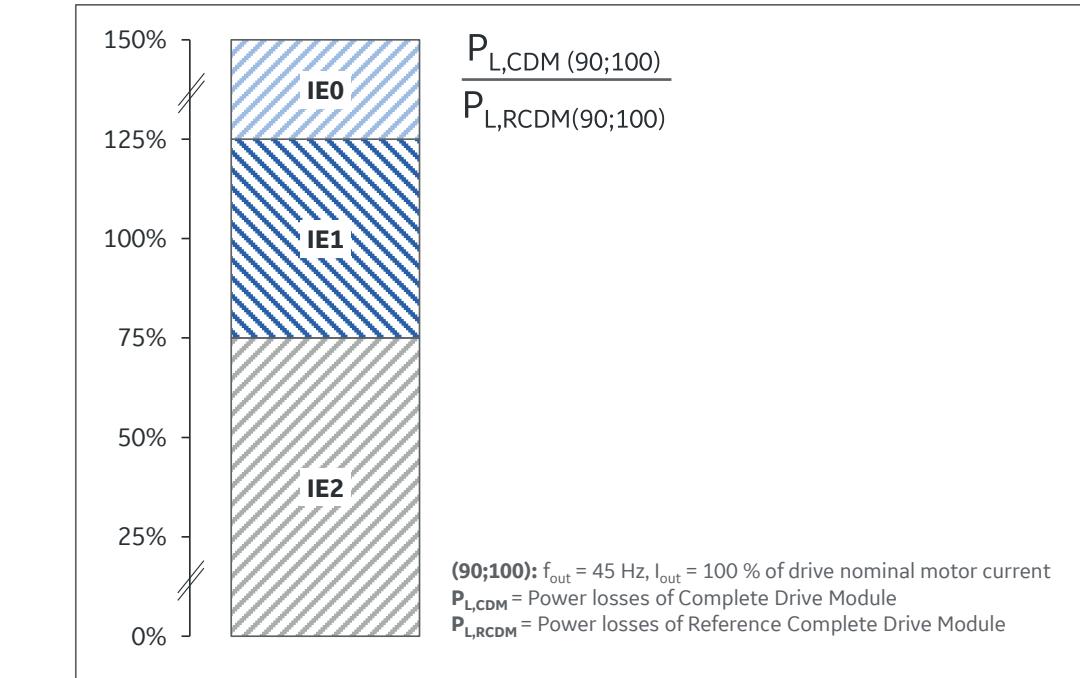
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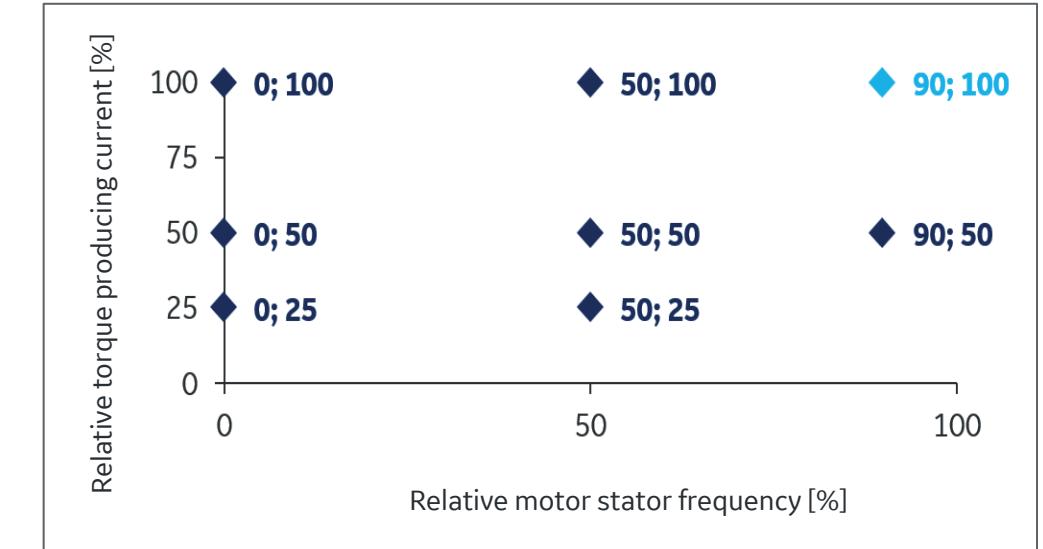
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IE classes for a CDM



The IE class compares the power losses of the Complete Drive Module (CDM) to the power losses of the "Reference CDM" defined in IEC 61800-9-2.

Required power loss data points



The power losses at the above data points have to be declared.
The IE classification is taken at 90% frequency and 100% torque-producing current.



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