

Necessary content of Technical Documentation

Electric motors

Electric motors are covered by ecodesign requirements according to Regulation (EC) No 640/2009¹ and Regulation (EU) No 4/2014.

The requirements only apply to electric motors as described in Article 1 and 2 of Regulation (EC) No 640/2009.

From July 27th 2014 Article 1 in Regulation (EC) No 640/2009 is replaced by Article 1 in Regulation (EU) No 4/2014.

The documentation shall be produced before the electric motor is placed on the market.

The technical documentation shall be sufficient to enable assessment of the conformity of the motor with the ecodesign requirement. In this respect it is important that test reports are included in the technical documentation.

Technical documentation for electric motors	
Demands	How to comply
Name and address of supplier	Company name and complete address.
General description	Description of the model so that it is easily identified (model name and number, motor output power etc.)
List of applied standards	Applied measurement standards (harmonised standards and/or other standards).
Identification and signature of the person empowered to bind the supplier	Name and signature of the person responsible for the motor.
Information about efficiency, motor characteristics and other relevant aspects	<ol style="list-style-type: none"> 1. Nominal efficiency (η) at the full, 75 % and 50 % rated load and voltage (U_N) 2. Efficiency level: 'IE2' or 'IE3' 3. The year of manufacture 4. Manufacturer's name or trade mark, commercial registration number and place of manufacturer 5. Product's model number 6. Number of poles of the motor 7. The rated power output(s) or range of rated power output (kW) 8. The rated input frequency(s) of the motor (Hz) 9. The rated voltage(s) or range of rated voltage (V) 10. The rated speed(s) or range of rated speed (rpm) 11. Information relevant for disassembly, recycling or disposal at end-of-life 12. Information on the range of operating conditions for which the motor is specifically designed (if relevant): <ol style="list-style-type: none"> (i) altitudes above sea-level (ii) ambient air temperatures, including for motors with air cooling (iii) water coolant temperature at the inlet to the product (iv) maximum operating temperature (v) potentially explosive atmospheres

The information shall be provided in the mentioned order (point 1 to 12).

To be continued on the next page

Technical documentation for electric motors

Demands	How to comply
Copy of information	Product information 1-12 shall be public available on a website. Be aware of Annex to Regulation 4/2014/EU.
Information about mandatory use of variable speed drive	Information on the mandatory requirement to equip motors, which do not meet the IE3 efficiency level with a variable speed drive: (a) from 1st January 2015 for motors with a rated output of 7.5-375 kW (b) from 1st January 2017 for motors with a rated output of 0.75-375 kW
Information with regard to variable speed drives	Information on any specific precautions that must be taken when motors are assembled, installed, maintained or used with variable speed drives, including information on how to minimise electrical and magnetic fields from variable speed drives.

This guide presents the contents of the Regulation and is addressed to manufacturers, importers and others interested. The guide is not a substitution for the Regulation, and in any case of doubt, the Regulation is applicable. This guide is not legally binding as a binding interpretation can only be made by the EU court.

COMMISSION REGULATION (EC) No 640/2009 of 22 July 2009 implementing Directive 2005/32/EC of the European Parliament and of the Council with regard to ecodesign requirements for electric motors and Corrigendum to Commission Regulation (EC) No 640/2009 of 22 July 2009 implementing Directive 2005/32/EC of the European Parliament and of the Council with regard to ecodesign requirements for electric motors

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