Electric motors

This guide presents the technical documentation that you have to provide if the market surveillance authorities ask for it. There are however other information requirements and requirements on web-information that you always need to fulfil according to the regulations.

Technical documentation for electric motors

<table>
<thead>
<tr>
<th>Demands</th>
<th>How to comply</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name and address of supplier</td>
<td>Company name and complete address.</td>
</tr>
<tr>
<td>General description</td>
<td>Description of the model so that it is easily identified (model name and number, motor output power etc.).</td>
</tr>
<tr>
<td>List of applied standards</td>
<td>Applied measurement standards (harmonised standards and/or other standards).</td>
</tr>
<tr>
<td>Identification and signature of the person empowered to bind the supplier</td>
<td>Name and signature of the person responsible for the motor.</td>
</tr>
</tbody>
</table>
| Information about efficiency, motor characteristics and other relevant aspects | 1. Nominal efficiency ($\eta$) 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 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): (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).
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<tr>
<td>Copy of information</td>
<td>Product information 1–12 shall be public available on a website. Be aware of Annex to Regulation 4/2014/EU.</td>
</tr>
<tr>
<td>Information about mandatory use of variable speed drive</td>
<td>Information on the mandatory requirement to equip motors, which do not meet the IE3 efficiency level with a variable speed drive:</td>
</tr>
<tr>
<td></td>
<td>a. From 1st January 2015 for motors with a rated output of 7.5–375 kW.</td>
</tr>
<tr>
<td></td>
<td>b. From 1st January 2017 for motors with a rated output of 0.75–375 kW.</td>
</tr>
<tr>
<td>Information with regard to variable speed drives</td>
<td>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.</td>
</tr>
</tbody>
</table>

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

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**COMMISSION REGULATION (EC)**

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