Technical information in accordance with Commission Regulation (EC) No 640/2009

This document provides compliance with the Ecodesign Directive 2009/125/EC for the WEG Low Voltage Motors.

1.1 List of Applicable Standards

a) EN 60034-2-1:2014 - ROTATING ELECTRICAL MACHINES - PART 2-1: STANDARD METHODS FOR DETERMINING LOSSES AND EFFICIENCY FROM TESTS (EXCLUDING MACHINES FOR TRACTION VEHICLES)


1.2 Product lines

WEG three-phase motors are available in accordance with IEC 60034-30-1:2014, in the following lines:

a) W22 Super Premium Efficiency – IE4 – manufacturing site WEG EQUIPAMENTOS ELÉTRICOS S.A.;


c) W22 High Efficiency – IE2 – manufacturing site WEG EQUIPAMENTOS ELÉTRICOS S.A.;


1.3 Technical data

The technical data for electric motors required by Annex 1 of European Commission Regulation (EC) No 640/2009 is:

1. Nominal efficiency ($\eta$) at the full, 75 % and 50 % rated load and nominal voltage – see item 1.4;
2. Efficiency level – see item 1.4;
3. The year of manufacture – see item 1.4;
4. Manufacturer’s name or trade mark, commercial registration number and place of manufacture – see items 1.4, 1.7 and 1.8;
5. Product’s model number – see items 1.4 and 1.8;
6. Number of poles of the motor – see items 1.4 and 1.8;
7. The rated power output(s) or range of rated power output (kW) – see items 1.4 and 1.8;
8. The rated input frequency(s) of the motor (Hz) – see item 1.4 and 1.8;
9. The rated voltage(s) or range of rated voltage (V) – see item 1.4 and 1.8;
10. The rated speed(s) or range of rated speed (rpm) – see item 1.4 and 1.8;
11. Information relevant for disassembly, recycling or disposal at end-of-life – see item 1.6;
12. Information on the range of operating conditions for which the motor is specifically designed – see item 1.5.

1.4 Nameplate data

The nameplate supplies information determining motor construction and performance characteristics. The product line name is given on the first line of the nameplate together with nominal efficiency levels as required by IEC 60034-30-1.
Figure 1 – Example of nameplate layout for frame sizes IEC 63 to 132

Figure 2 – Example of nameplate layout for frame sizes IEC 160 to 355
1.5 Operating conditions

Unless otherwise specified, the rated power outputs refer to continuous duty operation S1, as per IEC 60034-1 and under the following conditions:

a) With ambient temperature range -20°C to +40°C;
b) With altitudes up to 1000 meters above sea level;
c) Maximum operating temperature for thermal class F (155°C);
d) Potentially explosive atmospheres, as optional.
1.6 Environmental Information

1.6.1 Packaging

WEG electric motors are supplied in cardboard, plastic or wooden packaging. These materials can be recycled and must be disposed according to the applicable laws and regulations in each country. All wood used in the packaging of WEG motors come from the company reforestation program and is not submitted to any chemical conservation treatment.

1.6.2 Product

Electric motors consist mainly of ferrous metals (steel plates and cast iron), non-ferrous metals (copper and aluminum) and plastic materials. In general, electric motors have relatively long service life. However, when they must be discarded, WEG recommends to dismantle the motor, sort the different materials and send them for recycling. Non-recyclable materials should be disposed of at industrial landfills according to the applicable environmental laws and regulations in each country, or co-processed in cement kilns or incinerated. The recycling service providers, the disposal in industrial landfills, the waste co-processing or the incineration process must be properly authorized by the state environment agency to carry out these activities.
1.7 Manufacturing sites

**WEG EQUIPAMENTOS ELÉTRICOS S.A.**
Av. Pref. Waldemar Grubba, 3000
89256-900 Jaraguá do Sul – Santa Catarina – Brazil
**Register:** 07.175.725/0001-60
**Phone:** +55 47 3276-4000
**Website:** [http://www.weg.net](http://www.weg.net)

**WEG (Nantong) Electric Motor Manufacturing CO., LTD.**
No. 128# - Xinkai South Road, Nantong
Economic & Technical Development Zone, Nantong, Jiangsu Province – China
**Register:** 320601725199723
**Phone:** +86 513 8598 9333
**Website:** [http://www.weg.net/cn](http://www.weg.net/cn)
1.8 How to get the information?

To download the product documentation for each Product Code proceed as follows:

1) Find the Product Code on the nameplate:

![Nameplate Image]

2) Go to the website [www.weg.net/catalog](http://www.weg.net/catalog) and define your Language and Country:
3) Click on ‘Search for Product or Category’:

4) Inform the Product Code and click on ‘Search’:
5) Go to ‘Product Details – Technical Data’ and click on ‘Generate Documents’:

6) Select the fields ‘Datasheet’ and ‘Performance’ and click on ‘Generate Files’ to get the required data:
7) Save the file on your computer and open it. The numbers highlighted in red indicate the data required by Annex 1 of European Commission Regulation 640/2009.

### DATA SHEET

<table>
<thead>
<tr>
<th>Customer</th>
<th>Customer reference</th>
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<tbody>
<tr>
<td>Product line</td>
<td>WEG E3 Premium Three-Phase</td>
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<tr>
<td>Product code</td>
<td>3853371</td>
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<table>
<thead>
<tr>
<th>Frame</th>
<th>103M</th>
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</thead>
<tbody>
<tr>
<td>Output</td>
<td>7.5 kW</td>
</tr>
<tr>
<td>Frequency</td>
<td>50 Hz</td>
</tr>
<tr>
<td>Rated voltage</td>
<td>400/230 V</td>
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<tr>
<td>Rated current</td>
<td>15.9/8.6 A</td>
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<tr>
<td>No load current</td>
<td>0.23/0.125 A</td>
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<tr>
<td>Slip</td>
<td>2.57%</td>
</tr>
<tr>
<td>Locked rotor torque</td>
<td>1.1 Nm</td>
</tr>
<tr>
<td>Breakdown torque</td>
<td>2.9 Nm</td>
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<tr>
<td>Inrush current</td>
<td>150%</td>
</tr>
<tr>
<td>Motor type</td>
<td>2 (I)</td>
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<tr>
<td>Design</td>
<td>2.02/3.3 kg</td>
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</table>

<table>
<thead>
<tr>
<th>Output</th>
<th>0.75 Nm</th>
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<tbody>
<tr>
<td>Power Factor</td>
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<tr>
<td>Max. Inception</td>
<td>250 kgf</td>
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<tr>
<td>Max. Compression</td>
<td>296 kgf</td>
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<td>Bearing type</td>
<td>P200</td>
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<td>Lubrication interval</td>
<td>27,000 hours</td>
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<td>Grease amount</td>
<td>0.5 kg</td>
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<td>Grease type</td>
<td>Molykote GEM</td>
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</table>

**Notes:**

A) For the information required by item 3 (the year of manufacture) of the Regulation see item 1.4.

B) For the information required by item 11 (information relevant for disassembly, recycling or disposal at end-of-life) see item 1.6.