Driving efficiency and sustainability

Disposal and Environmental Information

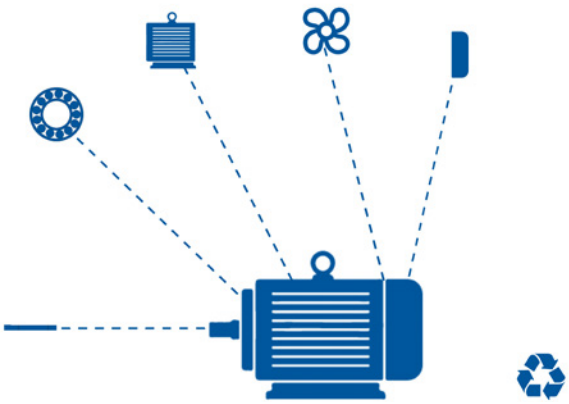
WEG Three-phase Electric Motors

WEG Single-phase Electric Motors

INTRODUCTION

This document presents disposal and environment information about three-phase and single-phase electric motors, ranging from frame size IEC 56 to 630 and NEMA 42 to 6808/09. It is intended for users, recyclers and treatment facilities, presenting relevant information for the proper disposal and recycling of electric motor.

Concerning product disposal, WEG recommends to separate product parts and packaging materials, and to send them for recycling whenever possible. National environmental regulations may vary in each country in the EU, please contact local WEG for further and up-to-date information about disposal and recycling of our products.



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1. PRODUCT DISPOSAL INFORMATION

In accordance with Directive 2012/19/EU, on Waste Electrical and Electronic Equipment (WEEE), WEG electric motors are marked with the 'crossed-out wheeled bin' symbol (Figure 1).

Figure 1 – *Indication of selective collection for waste of Electrical and Electronic Equipment (EEE)*

It indicates that Electrical and Electronic Equipment (EEE), once reaching their end of life, must not be disposed as unsorted municipal waste, but collected separately and disposed of at appropriate collection points.

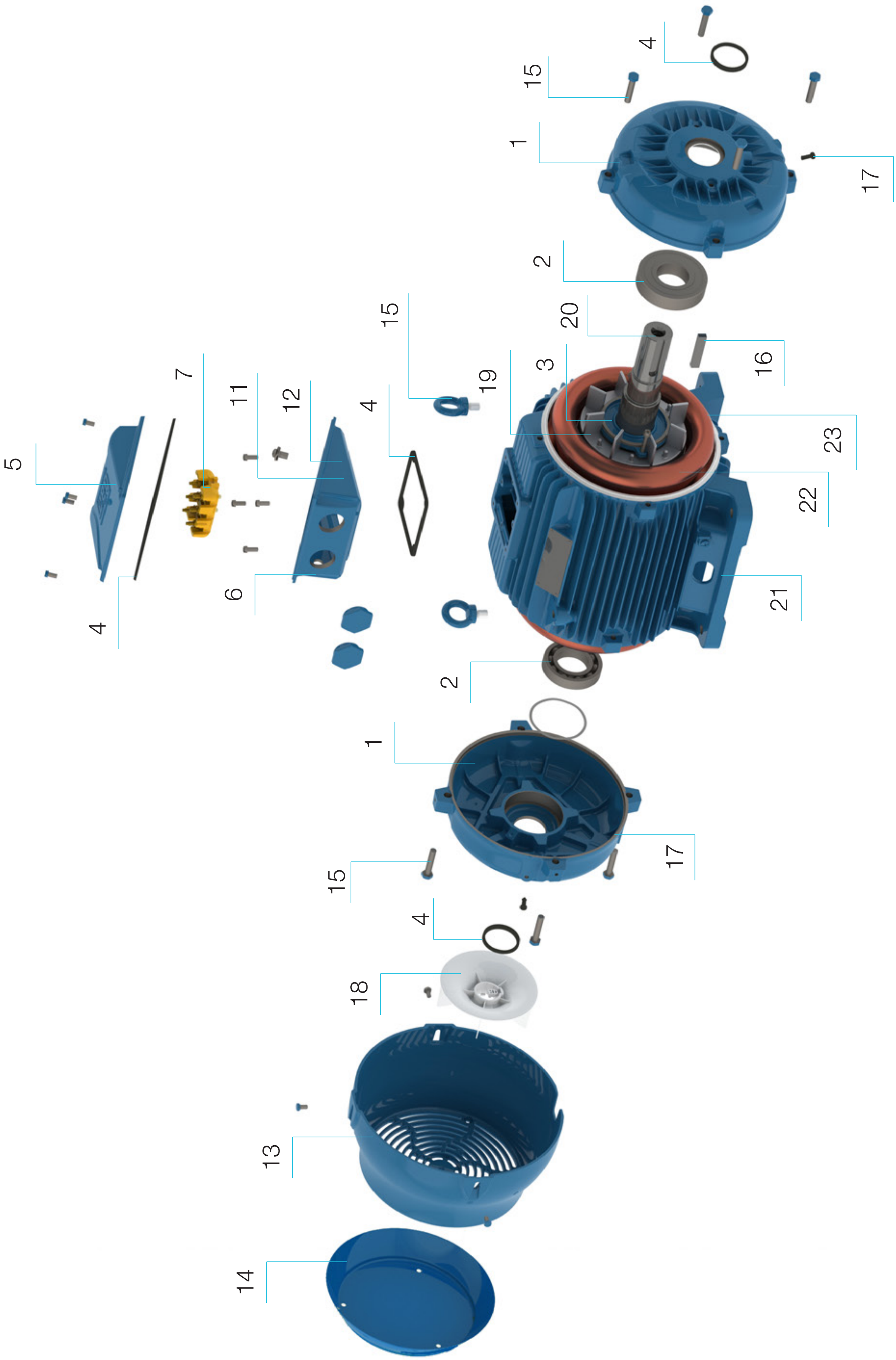
The single black line indicates the equipment was placed on the market after the Directive came into force in 2005.

2. ELECTRIC MOTORS

Electric motors, under constructive aspect, are mainly manufactured with ferrous metals (steel, cast iron), non-ferrous metals (copper, aluminium) and plastic.
Once reaching product's end of life, proper treatment must be adopted, in accordance with international and local regulations. Treatment facilities must be licensed and must comply with environmental requirements of the Member States they are located in.

Capacitors, plastic parts containing brominated flame retardants and components containing refractory ceramic fibres need selective treatment, in accordance with EU Waste legislation.

Figures 2 and 3 present the main components of a three-phase and a single-phase electric motor, respectively. Table 1 describes these products materials.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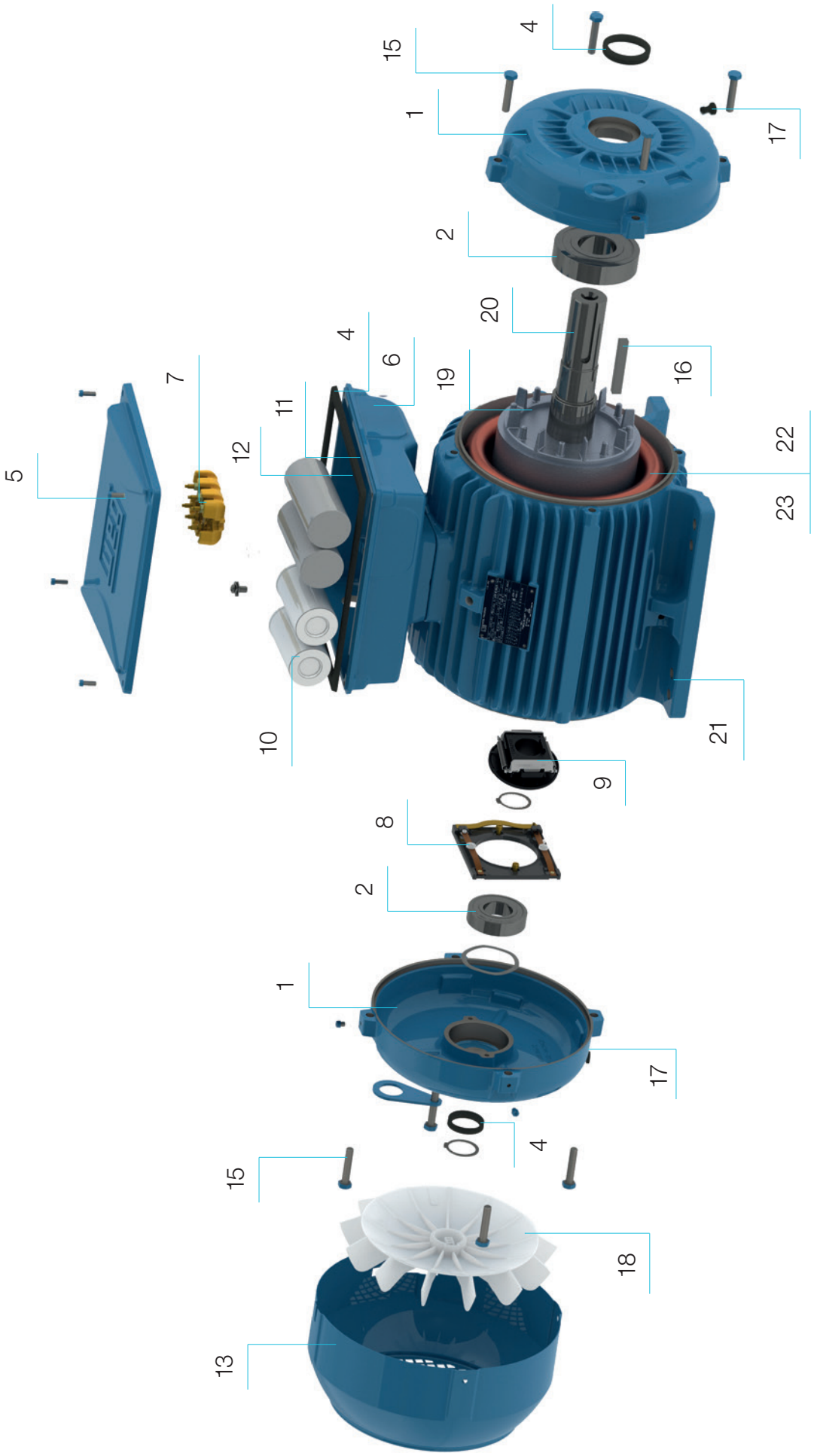
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Position	Component	Material
1	Endshields	Aluminium / Cast iron
2	Bearings	Steel
		Rubber
3	Bearing caps	Cast iron / Steel
4	Sealings	Rubber
		Brass / Steel
5	Terminal box cover	Aluminium alloy / Cast iron / Steel /Plastic
6	Terminal box	Aluminium alloy / Cast iron / Steel
		Plastic
7	Terminal block	Epoxy / Polyester resin / Ceramics
		Steel
8	Stationary switch	Steel
		Plastic
9	Centrifugal switch	Steel / Aluminium
		Plastic
10	Capacitor	Plastic
11	Terminal lugs	Brass / Copper
12	Terminal connectors	Plastic
		Steel
13	Fan cover	Steel / Cast iron
		Plastic
14	Drip cover	Steel / Cast iron
		Plastic
15	Screws	Steel
16	Key	Steel
17	Drainage plug	Plastic
		Steel
18	Fan	Plastic
		Aluminium alloy
		Cast iron
		Bronze
19	Rotor core	Aluminium and steel
20	Shaft	Steel
21	Frame	Aluminium alloy / Cast iron / Steel
22	Stator core	Steel
23	Winding	Copper / Aluminium and plastic
	Slot insulation	Plastic

3. PACKAGING

Electric motors packagings are made of carton, plastic, steel or wood. These packagings are in compliance with the Directive 94/62/CE on Packaging and Packaging Waste and its amendments.

These materials are recyclable and WEG recommends recycling them in accordance with national regulations of each EU Member State.

4. REFERENCE LIST

1. Directive 2012/19/EU of the European Parliament and of the Council of 4 July 2012 on waste electrical and electronic equipment (WEEE).
2. European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.

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