

# ENVIRONMENTAL PRODUCT DECLARATION



## MARECHAL® DECONTACTOR™ Poly plugs and socket-outlets

### ■ MARECHAL ELECTRIC's environmental commitment

- Consideration of the environmental dimension when designing appliances in order to reduce its impact on the environment throughout its life cycle.
- MARECHAL® socket outlets are designed and manufactured to be fully repairable.

### ■ Product category

- The products under consideration belong to the socket-outlet subfamily within the socket-outlet family as defined in PSR-0005-ed3-EN-2023 06 06,
- The products are intended for the industrial sector and comply with IEC 60309-1 standard,
- Functional unit: To connect/disconnect the plug of a load at its maximum rated current at a point on the 220-250 V electrical network, protecting the user from direct contact against live parts, with protection degrees IP66/IP67/IP69 and IK09, according to the appropriate use scenario, and for the 20-year reference life of the product.



### ■ Part numbers covered

- DSN1 (20 A) : 6114xxx ; 6118xxx ; 511B3Mxx ; 511P0D18
- DS1 (30 A) & DSN3 (32 A) : 3114xxx ; 3118xxx ; 6134xxx ; 6138xxx ; 512B3Mxx ; 512P0D21
- DS3 (50 A) & DSN6 (63 A) : 3134xxx ; 3138xxx ; 6164xxx ; 6168xxx ; 513B3Mxx ; 513P0D30
- DS6 (90 A) : 3164xxx ; 3168xxx ; 514B3Mxx ; 514P0D35
- DS9 (150 A) : 3194xxx ; 3198xxx ; 515M3 ; 515P032P

### ■ Constituent materials

- Several materials come from recycling.
- The constituent materials and their weight distribution are listed below:

List of constituent materials	
Total metals	11,1%
Total plastics	65,6%
Total others : cardboard & paper packaging	23,3%

### ■ Manufacturing

All the components are manufactured and assembled in France.  
 Inbound transport of raw materials and components to the assembly site has been taken into account.



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## ■ Distribution

Distribution of the packaged product from the manufacturing site to the installation site was modelled using a 27t lorry.

A truck loading rate of 85% and an empty return rate of 20% were considered.

## ■ Installation

No specific component needed for installation phase.

## ■ Use

Apart from the gaskets, which can be easily replaced, the products do not require any particular service or maintenance (considering normal conditions of use).

## ■ End of life

The end-of-life treatment of MARECHAL® DECONTACTOR™ plugs and socket-outlets was modelled using “Ecosystem’s ICV modules publics” (called ESR) as recommended by PCR ed 4 (20 years).

## ■ Environmental impacts: Breakdown by type, for an impact of 100

The environmental impacts assessment considers each step of the product’s life cycle: Manufacturing, Distribution, Installation, Use and End of life.

The results were obtained in February 2024, using EIME software version 6.1 and its most recent database.

Below are the weighted results for the product on the selection of mandatory indicators. These results show the percentage breakdown of indicators (a total impact of 100 units makes it easy to read).

