



## CFP STUDY REPORT: IRC40SN40M1PA

Issued according to ISO 14067:2018

Result verified ref to ICMQ certification nr. CFPSA315

### 1. FOREWORD

This report is part of the procedures and documents of the LCA tool and, in particular, reports the data relating to the CFP of the specific product being analyzed.

The information contained in this specific product CFP study report must therefore always be read together with the "GAV\_LCA Tool General Study Report\_2024 data\_rev1". They are therefore very concise on a discursive level and are focused above all on the quantification of the CFP of the product under analysis.

### 2. GOAL AND SCOPE

The objective of the study is the quantification of the product Carbon Footprint (CFP) relating to the **IRC40SN40M1PA** device, of the **Inductive sensors** category, with a power of **0.6 W** and a lifespan of **20 years**.

### 3. INVENTORY ANALYSIS

The device under study is the **IRC40SN40M1PA** model with a total weight of **0.15 kg**, including packaging.  
 Reference tool for the calculation: LCA tool\_data 2024\_GAV Kunshan dated 04/10/2025.

### 4. IMPACT ASSESSMENT

Please refer to chapter 4.1 of the "GAV\_LCA Tool General Study Report\_2024 data\_rev1".

#### 4.2 Total CFP

Below is the overall quantitative impact of the CFP of the product covered by this study, **IRC40SN40M1F** device.

CFP (kg CO2e/device)	Production UPSTREAM (kg CO2e)	Production CORE (kg CO2e)	Production DOWNSTREAM (kg CO2e)
<b>TOTAL</b>	<b>1.51</b>	<b>0.31</b>	<b>0.11</b>

#### 4.2.1 Other GHG emissions and removals constituting CFP

The totals expressed in the following table include the sums of the impacts of the cradle-to-grave phases.

GHG VALUES CONSTITUTING THE CFP	UNIT OF MEASURE	DEVICE
		<b>IRC40SN40M1PA</b>
GHG emission and removals from fossil carbon sources and sinks	kg CO2e/U.F.	<b>1.45</b>
GHG emissions from biogenic carbon sources	kg CO2e/U.F.	<b>0.06</b>
GHG emissions and removals resulting from dLUC	kg CO2e/U.F.	<b>0.00</b>
GHG emissions from aviation	kg CO2e/U.F.	<b>0.02</b>

Responsible party:



Carlo Gavazzi Automation (Kunshan) Co. Ltd

JILL Dai

Jill Dai - Quality Engineer

CFP/LCA study performed by:



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