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CFP STUDY REPORT: SME41

Issued according to ISO 14067:2018
Result verified ref to ICMQ certification nr. CFPSA281 – 27/03/2024

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_2022 data_rev2". 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) related to the SME41 device, of the Safety Controller category, with a power of 2 W and a lifespan of 10 years.

3. INVENTORY ANALYSIS

The device under study is the SME41 model with a total weight of 0,230 kg, including packaging.
Reference tool for the calculation: LCA tool_data 2022_GAV Kaunas_rev1 dated 16/02/2024.

4. IMPACT ASSESSMENT

As per to chapter 4.1 of the "GAV_LCA Tool General Study Report_2022 data_rev2".

4.1 Total CFP

Below is the overall quantitative impact of the CFP of the product SME41 device.

CFP ($kg\ CO_2e$/device)	Production UPSTREAM ($kg\ CO_2e$)	Production CORE ($kg\ CO_2e$)	Distribution DOWNSTREAM ($kg\ CO_2e$)
TOTAL 130,65	47,45	0,10	83,10

4.2 Other GHG emission and removals constituting CFP

GHG VALUES CONSTITUTING THE CFP	*UNIT OF MEASURE*	*DEVICE* SME41
GHG emissions and removals from fossil carbon sources and sinks	*kg CO_2e/U.F.*	129,51
GHG emissions from biogenic carbon sources	*kg CO_2e/U.F.*	0,40
GHG emissions and removals resulting from dLUC	*kg CO_2e/U.F.*	0,74
GHG emissions from aviation	*kg CO_2e/U.F.*	1,15

Responsible party:

CARLO GAVAZZI

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CFP/LCA study performed by:

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