

# Product Environmental Profile

Rotary Handle for GoPact MCCB 125 A to GoPact MCCB 800 A

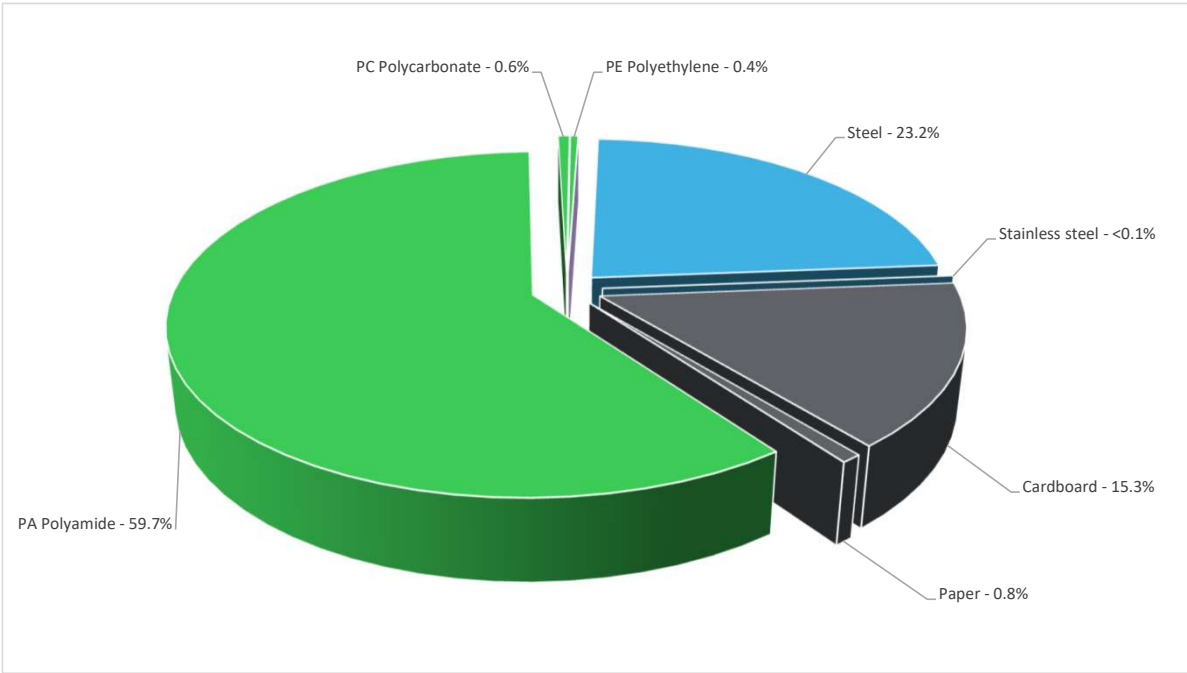


## General information

Reference product	Rotary Handle for GoPact MCCB 125 A to GoPact MCCB 800 A - G20ROTE
Description of the product	<p>The main function of the Rotary Handle for GoPact MCCB 125 A to GoPact MCCB 800 A is to enable Switching ON, Switching OFF, Trip and RESET operation of the MCCB from outside of the panel. In addition to basic functions, it provides safety interlocking feature like panel door interlock, panel door sensor and provision to padlock the MCCB via Rotary Handle.</p> <p>This range consists of:</p> <ul style="list-style-type: none"> <li>- All direct rotary handles for GoPact MCCB 125 A to GoPact MCCB 800 A</li> <li>- All extended rotary handles for GoPact MCCB 125 A to GoPact MCCB 800 A</li> </ul> <p>The representative product used for the analysis is: EXTENDED ROTARY HANDLE GoPact MCCB 200 A.</p>
Functional unit	<p>Rotary Handle for MCCB is to allow the ON, OFF, TRIP, RESET operation of MCCB from the front face of the switchboard for 20 years.</p> <p>IP Class = IP30 (Direct Rotary); IP54 (Extended Rotary) Product Standard: IEC 60947-2</p>

## Constituent materials

Reference product mass	545 g including the product, its packaging and additional elements and accessories
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Plastics	60.70%
Metals	23.20%
Others	16.10%

## Substance assessment

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website <https://www.se.com/ww/en/work/support/green-premium/>

## Additional environmental information

End Of Life	Recyclability potential:	27%	Recyclability rate has been calculated based on REEECYLAB tool developed by Ecosystem, for components/materials not covered by the tool, data from the "ECO'DEEEE recyclability and recoverability calculation method" was taken. If no data was found a conservative assumption was used (0% recyclability).
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## Environmental impacts

Reference service life time	20 years			
Product category	Other equipments - Passive product - non-continuous operation			
Installation elements	End of Life of the Packaging			
Use scenario	Rotary Handle for GoPact MCCB 125 A to GoPact MCCB 800 A doesn't consume any energy			
Geographical representativeness	Europe and International			
Energy model used	[A1 - A3]	[A5]	[B6]	[C1 - C4]
	Electricity Mix; Production mix; Low voltage; IN	Electricity Mix; Production mix; Low voltage; TR	Electricity Mix; Production mix; Low voltage; TR	Electricity Mix; Production mix; Low voltage; TR
		Electricity Mix; Production mix; Low voltage; ID	Electricity Mix; Production mix; Low voltage; ID	Electricity Mix; Production mix; Low voltage; ID
		Electricity Mix; Production mix; Low voltage; BR	Electricity Mix; Production mix; Low voltage; BR	Electricity Mix; Production mix; Low voltage; BR
		Electricity Mix; Production mix; Low voltage; US	Electricity Mix; Production mix; Low voltage; US	Electricity Mix; Production mix; Low voltage; US

Detailed results, including all the optional indicators mentioned in PCRred4, and the split of the Use Phase (B1 to B7), are available in the LCA report and on demand in a digital format - Country Customer Care Center - <http://www.schneider-electric.com/contact>

Mandatory Indicators			Rotary Handle for GoPact MCCB 125 A to GoPact MCCB 800 A - G20ROTE					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	Benefits
			[A1 - A3]	[A4]	[A5]	[B1 - B7]	[C1 - C4]	[D]
Contribution to climate change	kg CO2 eq	5.64E+00	3.91E+00	1.37E-01	1.10E-01	0*	1.49E+00	-6.11E-01
Contribution to climate change-fossil	kg CO2 eq	5.61E+00	3.88E+00	1.37E-01	1.10E-01	0*	1.49E+00	-6.09E-01
Contribution to climate change-biogenic	kg CO2 eq	2.93E-02	2.90E-02	0*	3.80E-04	0*	0*	-2.05E-03
Contribution to climate change-land use and land use change	kg CO2 eq	1.22E-08	0*	0*	1.22E-08	0*	0*	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	2.92E-07	1.66E-07	1.21E-07	8.34E-10	0*	4.16E-09	-8.85E-08
Contribution to acidification	mol H+ eq	3.24E-02	3.01E-02	5.97E-04	1.05E-04	0*	1.58E-03	-3.55E-03
Contribution to eutrophication, freshwater	kg (PO4) <sup>3-</sup> eq	7.42E-05	7.23E-05	1.61E-08	1.87E-06	0*	7.39E-08	-1.29E-06
Contribution to eutrophication marine	kg N eq	6.53E-03	5.89E-03	2.75E-04	4.80E-05	0*	3.14E-04	-3.58E-04
Contribution to eutrophication, terrestrial	mol N eq	7.00E-02	6.29E-02	2.97E-03	3.64E-04	0*	3.73E-03	-4.13E-03
Contribution to photochemical ozone formation - human health	kg COVNM eq	2.05E-02	1.83E-02	9.75E-04	1.18E-04	0*	1.16E-03	-1.45E-03
Contribution to resource use, minerals and metals	kg Sb eq	1.47E-04	1.47E-04	0*	0*	0*	1.54E-08	-1.85E-04
Contribution to resource use, fossils	MJ	7.68E+01	4.74E+01	1.67E+00	1.97E-01	0*	2.75E+01	-1.40E+01
Contribution to water use	m3 eq	8.53E-01	6.02E-01	6.97E-03	7.18E-03	0*	2.37E-01	-2.61E-01

Additional indicators for the French regulation are available as well

Inventory flows Indicators		Rotary Handle for GoPact MCCB 125 A to GoPact MCCB 800 A - G20ROTE						
Inventory flows	Unit	Total	Manufact. [A1 - A3]	Distribution [A4]	Installation [A5]	Use [B1 - B7]	End of Life [C1 - C4]	Benefits [D]
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	8.08E-01	7.91E-01	0*	1.15E-02	0*	6.09E-03	-6.21E-02
Contribution to use of renewable primary energy resources used as raw material	MJ	1.79E+00	1.79E+00	0*	0*	0*	0*	-8.10E-02
Contribution to total use of renewable primary energy resources	MJ	2.60E+00	2.58E+00	0*	1.15E-02	0*	6.09E-03	-1.43E-01
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	7.21E+01	4.27E+01	1.67E+00	1.97E-01	0*	2.75E+01	-1.38E+01
Contribution to use of non renewable primary energy resources used as raw material	MJ	4.77E+00	4.77E+00	0*	0*	0*	0*	-2.07E-01
Contribution to total use of non-renewable primary energy resources	MJ	7.68E+01	4.74E+01	1.67E+00	1.97E-01	0*	2.75E+01	-1.40E+01
Contribution to use of secondary material	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to use of renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to use of non renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to net use of freshwater	m³	1.68E-02	1.11E-02	1.62E-04	6.44E-06	0*	5.47E-03	-5.30E-03
Contribution to hazardous waste disposed	kg	1.18E+01	1.13E+01	0*	0*	0*	4.74E-01	-1.46E+01
Contribution to non hazardous waste disposed	kg	1.22E+00	7.26E-01	1.40E-04	1.23E-01	0*	3.69E-01	-5.95E-01
Contribution to radioactive waste disposed	kg	2.81E-04	2.32E-04	2.73E-05	7.04E-06	0*	1.50E-05	-2.21E-04
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	1.35E-01	0*	0*	6.70E-03	0*	1.28E-01	0.00E+00
Contribution to materials for energy recovery	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to exported energy	MJ	4.93E-02	0*	0*	4.93E-02	0*	0*	0.00E+00
Contribution to biogenic carbon content of the product	kg de C	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to biogenic carbon content of the associated packaging	kg de C	0.00E+00	0*	0*	0*	0*	0*	0.00E+00

\* represents less than 0.01% of the total life cycle of the reference flow

Life cycle assessment performed with EIME version v5.9.4, database version 2022-01 in compliance with ISO14044.

Detailed results, including all the optional indicators mentioned in PCRed4, and the split of the Use Phase (B1 to B7), are available in the LCA report and on demand in a digital format - Country Customer Care Center - <http://www.schneider-electric.com/contact>

The manufacturing phase has the greatest impacts contribution on the majority of environmental indicators, except for Climate change-Land use and land use change (GWPlu).

Please note that the values given above are only valid within the context specified and cannot be used directly to draw up the environmental assessment of an installation.

Registration number :	ENVPEP2301015_V1	Drafting rules	PEP-PCR-ed4-2021 09 06
Date of issue	2023/03/01	Supplemented by Information and reference documents	PSR-0005-ed2-2016 03 29 <a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a>
		Validity period	5 years
Independent verification of the declaration and data, in compliance with ISO 14021 : 2016			
Internal	X	External	
The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN)			
PEP are compliant with XP C08-100-1 :2016			
The elements of the present PEP cannot be compared with elements from another program.			
Document in compliance with ISO 14021 : 2016 « Environmental labels and declarations. Type II environmental declarations »			

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