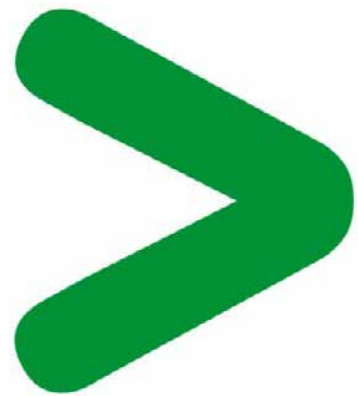


Product Environmental Profile

Easy56 Combination Switched Sockets



Product Environmental Profile – PEP

Product overview

The main purpose of the **Easy56 Combination Switched Sockets** by Schneider Electric have a 101mm modular design, allowing installers to mix and match covers on to one, two, three or four gang enclosures (bases) for Commercial and Industrial environments both indoors and outdoors where protection from dust, water, UV and impact is important.

Functional unit: To give access to Electricity till the plug with IP66 for 20 years as per AS/NZS 3123, 3112, 3133 standards.

This range consists of Easy56 combination switched sockets range in size from 240V, 10A to 500V, 32A.

The two piece cover also means this modular range can have switches or sockets replaced separately during maintenance upgrades allowing increased affordability.

ON and OFF positions are clearly marked with raised lettering so they will never wear off. A provision for an 8mm padlock is provided for locking OFF. Less enclosure (base) options are also available for single phase 10A and 15A products.

Easy56 combination switched sockets are also compatible with Clipsal 56 series accessories which provide further flexibility. This means if other amperages or voltages are required, it is recommended to refer to the Clipsal 56 series range

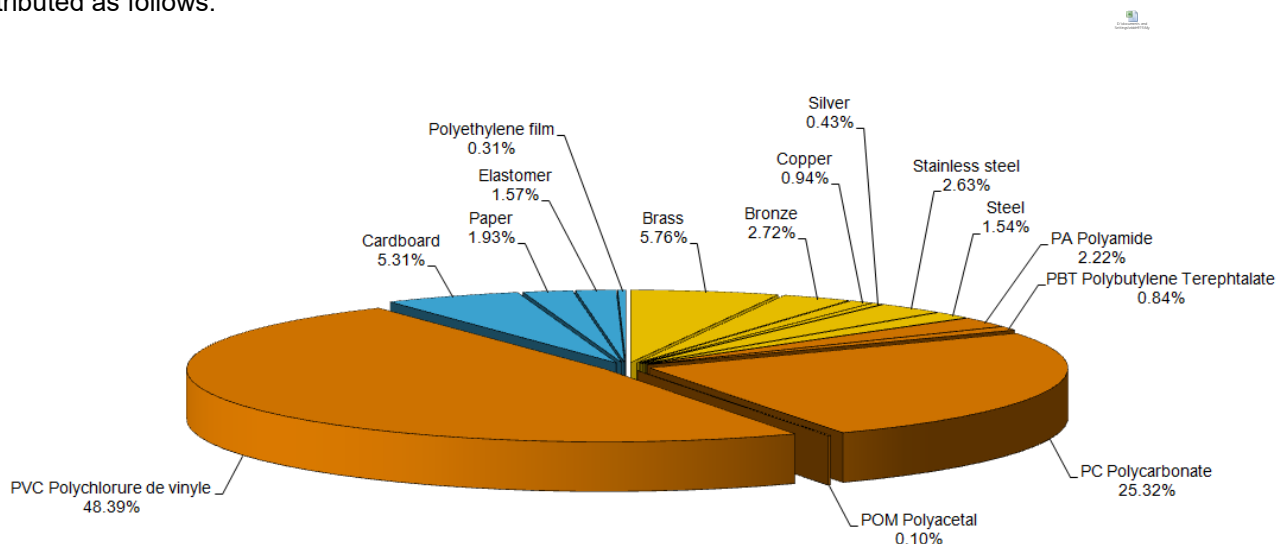
The representative product used for the analysis is **Easy56 Combination Switched Socket 3 Pin 10A 250V** and commercial ref. **EY56C310**.

The environmental impacts of this referenced product are representative of the impacts of the other products of the range which are developed with a similar technology.

The environmental analysis was performed in conformity with ISO 14040.

Constituent materials

The mass of the product range is from 950 g and 960 g including packaging. It is **956.17 g** for the **Easy56 Combination Switched Socket 3 Pin 10A 250V** and commercial ref. **EY56C310**. The constituent materials are distributed as follows:



Substance assessment

Products of this range are designed in conformity with the requirements of the European RoHS Directive 2011/65/EU and do not contain, or only contain in the authorised proportions, lead, mercury, cadmium, hexavalent chromium or flame retardants (polybrominated biphenyls - PBB, polybrominated diphenyl ethers - PBDE) as mentioned in the Directive.

Details of ROHS and REACH substances information are available on the Schneider-Electric [Green Premium website](http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page) . (<http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page>)

Product Environmental Profile – PEP

Manufacturing

The **Easy56 Combination Switched Sockets** product range is manufactured at a Schneider Electric production site on which an ISO14001 certified environmental management system has been established.

Distribution

The weight and volume of the packaging have been optimized, based on the European Union's packaging directive.

The **Easy56 Combination Switched Socket 3 Pin 10A 250V** packaging weight is **72.16 g**. It consists of Cardboard 50.75 g, Paper 18.41 g, and Polyethylene film 3 g.

The product distribution flows have been optimised by setting up local distribution centres close to the market areas.

Use

The products of the **Easy56 Combination Switched Sockets** range do not generate environmental pollution (noise, emissions) requiring special precautionary measures in standard use.

The dissipated power depends on the conditions under which the product is implemented and used. This dissipated power is between 0 W and 1 W for the **Easy56 Combination Switched Sockets** product range. It is 0.002 W at 30% loading rate (30% of rated current) for the referenced **Easy56 Combination Switched Socket 3 Pin 10A 250V** and commercial ref. **EY56C310**.

This thermal dissipation represents less than 0.001% of the power which passes through the product. The product range does not require special maintenance operations.

End of life

At end of life, the products in the **Easy56 Combination Switched Sockets** have been optimized to decrease the amount of waste and allow recovery of the product components and materials.

This product range doesn't need any special end-of-life treatment. According to countries' practices this product can enter the usual end-of-life treatment process.

The recyclability potential of the products has been evaluated using the "ECO DEEE recyclability and recoverability calculation method" (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME).

According to this method, the potential recyclability ratio without packaging is: **35%**.

As described in the recyclability calculation method this ratio includes only metals and plastics which have proven industrial recycling processes.

Product Environmental Profile – PEP

Environmental impacts

Life cycle assessment has been performed on the following life cycle phases: Materials and Manufacturing (M), Distribution (D), Installation (I) Use (U), and End of life (E).

Modelling hypothesis and method:

- The calculation was performed on **Easy56 Combination Switched Socket 3 Pin 10A 250V** and commercial ref. **EY56C310**.
- Product packaging is included.
- Installation components: No special components included.
- Scenario for the Use phase: This product range is included in the category “**Energy passing**” product. Assumed service lifetime is **20** years and use scenario is: Product dissipation is 0.002 W at 30% loading rate (30% of rated current) and service uptime percentage is 30%.
- The geographical representative area for the assessment is **Australia** and the electrical power model used for calculation is **Asia pacific** model.
- End of life impacts are based on a worst case transport distance to the recycling plant (1000km)

Presentation of the product environmental impacts

Environmental indicators	Unit	Easy56 Combination Switched Socket 3 Pin 10A 250V and commercial ref. EY56C310					
		S = M + D + I + U + E	M	D	I	U	E
Air Acidification (AA)	kg H+ eq	1.29E-03	1.10E-03	3.08E-05	0.00E+00	2.27E-05	1.36E-04
Air toxicity (AT)	m³	2.14E+06	1.86E+06	4.58E+04	0.00E+00	2.67E+04	2.03E+05
Energy Depletion (ED)	MJ	1.36E+02	1.22E+02	2.31E+00	0.00E+00	1.41E+00	9.77E+00
Global Warming Potential (GWP)	kg CO ₂ eq.	6.56E+00	5.59E+00	1.64E-01	0.00E+00	1.17E-01	6.94E-01
Hazardous Waste Production (HWP)	kg	8.14E-02	7.85E-02	2.03E-07	0.00E+00	2.89E-03	8.58E-07
Ozone Depletion Potential (ODP)	kg CFC-11 eq.	4.52E-07	4.49E-07	3.11E-10	0.00E+00	1.40E-09	1.31E-09
Photochemical Ozone Creation Potential (POCP)	kg C ₂ H ₄ eq.	2.33E-03	2.10E-03	4.24E-05	0.00E+00	1.77E-05	1.73E-04
Raw Material Depletion (RMD)	Y-1	2.05E-13	2.05E-13	3.35E-18	0.00E+00	8.74E-19	1.42E-17
Water Depletion (WD)	dm ³	2.05E+02	2.05E+02	1.70E-02	0.00E+00	1.19E-01	7.20E-02
Water Eutrophication (WE)	kg PO ₄ ³⁻ eq.	9.13E-04	9.11E-04	3.05E-07	0.00E+00	2.35E-07	1.29E-06
Water Toxicity (WT)	m³	8.67E+00	8.30E+00	7.01E-02	0.00E+00	5.74E-03	2.96E-01

Life cycle assessment has been performed with the EIME software (Environmental Impact and Management Explorer), version 5 and with its database version 2013-02

The Manufacturing (**M**) phase is the life cycle phase which has the greatest impact on the majority of environmental indicators.

According to this environmental analysis, proportionality rules may be used to evaluate the impacts of other products of this range: “Depending on the impact analysis, the environmental indicators of other products in this family may be proportional extrapolated by mass of the product”.

System approach

As the products of the range are designed in accordance with the European RoHS Directive 2011/65/EU, they can be incorporated without any restriction in an assembly or an installation subject to this Directive.

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.

Glossary

Air Acidification (AA)	The acid substances present in the atmosphere are carried by rain. A high level of acidity in the rain can cause damage to forests. The contribution of acidification is calculated using the acidification potentials of the substances concerned and is expressed in mode equivalent of H ⁺ .
Air Toxicity (AT)	This indicator represents the air toxicity in a human environment. It takes into account the usually accepted concentrations for several gases in the air and the quantity of gas released over the life cycle. The indication given corresponds to the air volume needed to dilute these gases down to acceptable concentrations.
Energy Depletion (ED)	This indicator gives the quantity of energy consumed, whether it is from fossil, hydroelectric, nuclear or other sources. It takes into account the energy from the material produced during combustion. It is expressed in MJ.
Global Warming (GW)	The global warming of the planet is the result of the increase in the greenhouse effect due to the sunlight reflected by the earth's surface being absorbed by certain gases known as "greenhouse-effect" gases. The effect is quantified in gram equivalent of CO ₂ .
Hazardous Waste Production (HWP)	This indicator quantifies the quantity of specially treated waste created during all the life cycle phases (manufacturing, distribution and utilization). For example, special industrial waste in the manufacturing phase, waste associated with the production of electrical power, etc. It is expressed in kg.
Ozone Depletion (OD)	This indicator defines the contribution to the phenomenon of the disappearance of the stratospheric ozone layer due to the emission of certain specific gases. The effect is expressed in gram equivalent of CFC-11.
Photochemical Ozone Creation (POC)	This indicator quantifies the contribution to the "smog" phenomenon (the photochemical oxidation of certain gases which generates ozone) and is expressed in gram equivalent of ethylene (C ₂ H ₄).
Raw Material Depletion (RMD)	This indicator quantifies the consumption of raw materials during the life cycle of the product. It is expressed as the fraction of natural resources that disappear each year, with respect to all the annual reserves of the material.
Water Depletion (WD)	This indicator calculates the volume of water consumed, including drinking water and water from industrial sources. It is expressed in dm ³ .
Water Eutrophication (WE)	Eutrophication is a natural process defined as the enrichment in mineral salts of marine or lake waters or a process accelerated by human intervention, defined as the enrichment in nutritive elements (phosphorous compounds, nitrogen compounds and organic matter). This indicator represents the water eutrophication of lakes and marine waters by the release of specific substances in the effluents. It is expressed in grams equivalency of PO43-(phosphate).
Water Toxicity (WT)	This indicator represents the water toxicity. It takes into account the usually accepted concentrations for several substances in water and the quantity of substances released over the life cycle. The indication given corresponds to the water volume needed to dilute these substances down to acceptable concentrations.

PEP achieved with Schneider-Electric TT01 V10.4 and TT02 V20 procedures in compliance with ISO14040 series standards

Registration N° : SCHN-2015-128	Applicable PCR : PEP-PCR-ed 2.1-EN-2012 12 11 PSR-0005-ed1-EN -2012 12 11
Verifier accreditation N° : VH25	Program information: www.pep-ecopassport.org
Date of issue: 08-2015	Period of validity: 4 years
Independent verification of the declaration and data, according to ISO 14025:2006	
Internal	External <input checked="" type="checkbox"/>
In compliance with ISO 14025:2006 type III environmental declarations	
PCR review was conducted by an expert panel chaired by J. Chevalier (CSTB).	
The elements of the actual PEP cannot be compared with elements from another program.	



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