ETL DSST SERIES

PEP ecopassport®

Product Environmental Profile





Document in compliance with ISO 14025: 2006 "Environmental labels and declarations. Type III environmental declarations"

| ORGANIZATION | | CONTACT INFORMATION | CONTACT INFORMATION | | | | |
|---------------------------------------|----------------|--------------------------|--------------------------|-------|------|--|--|
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| STATUS | SECURITY LEVEL | REGISTRATION NUMBER | REV. | LANG. | PAGE | | |
| Approved | Public | ABBG-00521-V01.01-EN | 1 | en | 1/13 | | |

ABB Purpose & Embedding Sustainability

ABB is committed to continually promoting and embedding sustainability across its operations and value chain, aspiring to become a role model for others to follow. With its ABB Purpose, ABB is focusing on reducing harmful emissions, preserving natural resources and championing ethical and humane behavior.

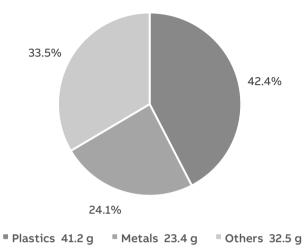


General Information

| Reference product | Reference product identification: ETL-2, 2CDS200982R0012 PSR product category: Other equipment |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description of the product | The DSST (Dual Single Shunt Trip) is an auxiliary switch for the remotely tripping (disconnection) of a circuit breaker. |
| Functional unit | The functional of the DSST is to protect the circuit breaker with a self-break within 10 ms, and during the reference service life of the product of 10 years in accordance with the IEC 60947-5-1 standard. |
| Other products covered | The ETL-2 DSST is the reference product for the ETL product family. Another product of the family is the ETL-1. The ETL-1 differs from the ETL-2 only in the weight of the coil. The extrapolation factors for the distribution and the end-of-life stage of the ETL-1 are calculated by dividing it by the weight of the ETL-2. For the manufacturing stage an extrapolation factor for each indicator is calculated. |

| STATUS | SECURITY LEVEL | REGISTRATION NUMBER | REV. | LANG. | PAGE |
|----------|----------------|----------------------|------|-------|------|
| Approved | Public | ABBG-00521-V01.01-EN | 1 | en | 2/13 |
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Constituent Materials



0

Total weight of Reference product (incl. packaging)

97.1

9

| Plastics as % of weight | | Metals as % of weight | | Others as % of weight | | |
|-------------------------|---------|-----------------------|---------|-----------------------|---------|--|
| Name and CAS number | Weight% | Name and CAS number | Weight% | Name and CAS number | Weight% | |
| GFRP | 39.4 | Steel | 12.1 | Cardboard | 31.4 | |
| Other plastic | 3.0 | Copper | 8.2 | Paper | 2.1 | |
| - | x | Copper alloys | 3.3 | - | x | |
| - | x | Aluminium | 0.5 | - | x | |
| | | | | | | |

| STATUS | SECURITY LEVEL | REGISTRATION NUMBER | REV. | LANG. | PAGE |
|----------|----------------|----------------------|------|-------|------|
| Approved | Public | ABBG-00521-V01.01-EN | 1 | en | 3/13 |



Life Cycle Stages Information

| Manufacturing | The product is manually assembled in Bulgaria. The production site of the products is certified according to ISO 14001. |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Distribution | Specific transport distances based on sales data are applied to model the distribution. |
| Installation | As installation is performed manually, no environmental burdens are associated to this phase besides the disposal of product packaging. |
| Use | For the ETL-2, no use-phase is modelled. Due to its function as a shunt trip, the ETL-2 only uses a negligible amount of power over its lifetime. The power loss from the use stage is cut off. The power consumption for the DSST is 1.5 A at 230 V. The maximum time of one release is 10 ms and a maximum of 600 releases can happen over the lifetime of the DSST. The average amount of releases is unknown. This leads to a maximum of power consumption over the lifetime of 5.75E-4 kWh. This most conservative (not realistic) approximation of power loss amounts to less than 5% of the total electricity use. For all indicator results, the results of the most conservative (not realistic) approximation of power loss are less than 0.1% of the results for the total life cycle of the product. Therefore, the power loss of the use stage is neglected in this study (marked with 0*). |
| End of life | Due to the lack of knowledge of the disposal pathway, landfilling as proposed standard scenario in the PCR is considered. |
| Benefits and loads beyond the system boundaries | Not considered |

| STATUS SE | SECURITY LEVEL | REGISTRATION NUMBER | REV. | LANG. | PAGE |
|--------------|----------------|----------------------|------|-------|------|
| Approved Pul | Public | ABBG-00521-V01.01-EN | 1 | en | 4/13 |



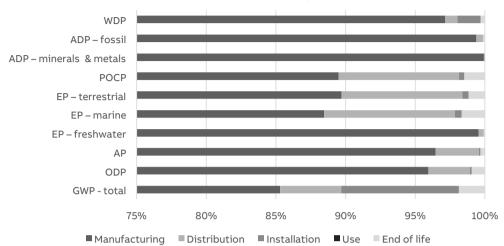
Environmental Impacts

| Reference lifetime | 10 years |
|----------------------------------|---------------------------------------------------------------------------------------|
| Product category | Electrical switchgear and control gear solutions |
| Installation elements | Does not require any special installation elements. |
| Use scenario | No use-stage modelled. See "Life Cycle Stages Information" |
| Geographical representativeness | Global |
| Technological representativeness | Represents the actual production technology of the series ETL |
| Software and database used | SimaPro 9.6.0.1 with ecoinvent 3.10, cut-off and industry data 2.0 |
| Energy model used | |
| Manufacturing | Electricity, medium voltage {BG} market for electricity, medium voltage Cut-off, S |
| Installation | no energy model used (manual installation) |
| Use | No use-stage modelled. See "Life Cycle Stages Information" |
| End of life | no energy model used (landfill) |

| STATUS | SECURITY LEVEL | REGISTRATION NUMBER | REV. | LANG. | PAGE |
|----------|----------------|----------------------|------|-------|------|
| Approved | Public | ABBG-00521-V01.01-EN | 1 | en | 5/13 |
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Common base of mandatory indicators

% Environmental Impact per Life Cycle Stage of Reference Product



Environmental impact indicators

| Indicator | Unit | Total | Manu- facturing | Distri- bution | Installation | Use | End of life |
|----------------------------------------------------------------------------------|-----------------------------------|-------------------------|--------------------|--------------------------|--------------|----------|----------------|
| GWP-total | kg CO ₂ eq. | 6.25E-01 | 5.33E-01 | 2.74E-02 | 5.28E-02 | 0* | 1.17E-02 |
| GWP-fossil | kg CO ₂ eq. | 6.16E-01 | 5.75E-01 | 2.74E-02 | 2.72E-03 | 0* | 1.16E-02 |
| GWP-biogenic | $kg CO_2 eq.$ | 7.98E-03 | -4.21E-02 | 6.12E-06 | 5.01E-02 | 0* | 5.46E-06 |
| GWP-luluc GWP-fossil = Global GWP-biogenic = Glob GWP-luluc = Global V | bal Warming Pot | ential bioge | enic | 1.08E-05 | 4.16E-07 | 0* | 2.73E-06 |
| ODP | kg CFC-11 eq. | 1.65E-08 | 1.58E-08 | 4.92E-10 | 2.22E-11 | 0* | 1.56E-10 |
| ODP = Depletion pot | | | | | | | |
| AP = Acidification po | H+ eq. otential, Accumu | 1.00E-02 lated Excee | 9.65E-03 edance | 3.11E-04 | 1.07E-05 | 0* | 3.25E-05 |
| EP-freshwater | kg P eq. | 5.57E-05 | 5.54E-05 | 1.77E-07 | 1.54E-08 | 0* | 6.41E-08 |
| EP-marine | kg N eq. | 9.21E-04 | 8.14E-04 | 8.64E-05 | 4.60E-06 | 0* | 1.53E-05 |
| EP-terrestrial EP-freshwater = Eut EP-marine = Eutroph EP-terrestrial = Eutro | nication potentia | ıl, fraction o | of nutrients reach | ing marine end | | 0* nt | 1.30E-04 |
| POCP | kg NMVOC eq. | 3.41E-03 | 3.05E-03 | 2.94E-04 | 1.29E-05 | 0* | 5.05E-05 |
| POCP = Formation p | otential of tropo | spheric ozo | one | | | | |
| ADP-minerals & metals | kg Sb eq. | 1.13E-04 | 1.13E-04 | 5.84E-08 | 3.05E-09 | 0* | 1.99E-08 |
| ADP-fossil ADP-minerals & met ADP-fossil = Abiotic | | | | 2.68E-02 il resources | 2.39E-03 | 0* | 9.47E-03 |
| WDP WDP = Water Depriv | m³ eq. depr. | 1.45E-01 | 1.41E-01 | 1.29E-03 | 2.40E-03 | 0* | 4.51E-04 |

| STATUS | SECURITY LEVEL | REGISTRATION NUMBER | REV. | LANG. | PAGE |
|----------|----------------|----------------------|------|-------|------|
| Approved | Public | ABBG-00521-V01.01-EN | 1 | en | 6/13 |

Common base of mandatory indicators

* if indicator is "0*", it represents less than 0,01% of the total life cycle of the reference flow

Inventory flows indicator - Resource use indicators

| Indicator | Unit | Total | Manu- facturing | Distri- bution | Installation | Use | End of life |
|-----------|------|----------|--------------------|-------------------|--------------|-----|----------------|
| PERE | MJ | 1.05E+00 | 1.04E+00 | 4.88E-03 | 3.81E-04 | 0* | 1.76E-03 |
| PERM | MJ | 4.22E-01 | 4.22E-01 | 0.00E+00 | 0.00E+00 | 0* | 0.00E+00 |
| PERT | МЈ | 1.47E+00 | 1.46E+00 | 4.88E-03 | 3.81E-04 | 0* | 1.76E-03 |
| PENRE | МЈ | 8.25E+00 | 7.76E+00 | 3.70E-01 | 1.32E-02 | 0* | 1.14E-01 |
| PENRM | МЈ | 9.71E-01 | 9.71E-01 | 0.00E+00 | 0.00E+00 | 0* | 0.00E+00 |
| PENRT | МЈ | 9.23E+00 | 8.73E+00 | 3.70E-01 | 1.32E-02 | 0* | 1.14E-01 |

PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials

PERM = Use of renewable primary energy resources used as raw materials

PERT = Total Use of renewable primary energy resources

PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials

PENRM = Use of non-renewable primary energy resources used as raw materials

PENRT = Total Use of non-renewable primary energy resources

Inventory flows indicator – Indicators describing the use of secondary materials, water, and energy resources

| Indicator | Unit | Total | Manu- facturing | Distri- bution | Installation | Use | End of life |
|-----------|------|----------|--------------------|-------------------|--------------|-----|----------------|
| SM | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0* | 0.00E+00 |
| RSF | MJ | 0.00E+00 | N/A | N/A | N/A | N/A | N/A |
| NRSF | MJ | 0.00E+00 | N/A | N/A | N/A | N/A | N/A |
| FW | m³ | 4.04E-03 | 3.94E-03 | 3.79E-05 | 5.64E-05 | 0* | 1.34E-05 |

SM = Use of secondary material

RSF = Use of renewable secondary fuels

NRSF = Use of non-renewable secondary fuels

FW = Use of net fresh water

Inventory flows indicator - Waste category indicators

| Indicator | Unit | Total | Manu- facturing | Distri- bution | Installation | Use | End of life |
|----------------------------------|------|----------|--------------------|-------------------|--------------|-----|----------------|
| Hazardous waste disposed | kg | 2.33E-02 | 2.33E-02 | 0.00E+00 | 0.00E+00 | 0* | 0.00E+00 |
| Non- hazardous waste disposed | kg | 3.35E-03 | 3.35E-03 | 0.00E+00 | 0.00E+00 | 0* | 0.00E+00 |
| Radioactive waste disposed | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0* | 0.00E+00 |

| Approved Public ABBG-00521-V01.01-EN 1 er | Publi | с | ABBG-00521-V01.01-EN | 1 | en | 7/13 |
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Common base of mandatory indicators

* if indicator is "0*", it represents less than 0,01% of the total life cycle of the reference flow

Inventory flows indicator – Output flow indicators

| Indicator | Unit | Total | Manu- facturing | Distri- bution | Installation | Use | End of life |
|-------------------------------|------|----------|--------------------|-------------------|--------------|-----|----------------|
| Components for re- use | kg | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0* | 0.00E+00 |
| Materials for recycling | kg | 9.24E-03 | 9.24E-03 | 0.00E+00 | 0.00E+00 | 0* | 0.00E+00 |
| Materials for energy recovery | kg | 2.06E-03 | 2.06E-03 | 0.00E+00 | 0.00E+00 | 0* | 0.00E+00 |
| Exported energy | МЈ | 1.13E-02 | 1.13E-02 | 0.00E+00 | 0.00E+00 | 0* | 0.00E+00 |

Inventory flow indicator – other indicators

| Indicator | Unit | Total |
|--------------------------------------------------------------|------------|----------|
| Biogenic carbon content of the product | kg of C | 0.00E+00 |
| Biogenic carbon content of the associated packaging | kg of C | 1.37E-02 |

| Approved Public ABBG-00521-V01.01-EN 1 en 8/13 | STATUS | SECURITY LEVEL | REGISTRATION NUMBER | REV. | LANG. | PAGE |
|------------------------------------------------|----------|----------------|----------------------|------|-------|------|
| | Approved | Public | ABBG-00521-V01.01-EN | 1 | en | 8/13 |

Optional indicators

* if indicator is "0*", it represents less than 0,01% of the total life cycle of the reference flow

Environmental indicators

| Indicator | Unit | Total | Manu- facturing | Distri- bution | Installation | Use | End of life |
|----------------------------------------------------|--------------------------|----------|--------------------|-------------------|--------------|-----|----------------|
| Emissions of fine particles | incidence of diseases | 4.12E-08 | 3.82E-08 | 2.12E-09 | 1.13E-10 | 0* | 7.96E-10 |
| lonizing radiation, human health | kBq U235 eq. | 5.03E-02 | 5.01E-02 | 1.37E-04 | 8.04E-06 | 0* | 4.99E-05 |
| Ecotoxicity (fresh water) | CTUe | 1.47E+01 | 1.43E+01 | 1.04E-01 | 6.40E-02 | 0* | 2.23E-01 |
| Human toxicity, car-cinogenic effects | CTUh | 7.48E-09 | 7.27E-09 | 1.50E-10 | 1.42E-11 | 0* | 4.63E-11 |
| Human toxicity, non- carcinogenic effects | CTUh | 1.24E-07 | 1.22E-07 | 2.57E-10 | 1.30E-10 | 0* | 1.38E-09 |
| Impact related to land use/soil quality | kBq U235 eq. | 9.28E+00 | 8.86E+00 | 2.81E-01 | 7.68E-03 | 0* | 1.34E-01 |

Other indicators

| Indicator | Unit | Total | Manu- facturing | Distri- bution | Installation | Use | End of life |
|--------------------------|------|-------|--------------------|-------------------|--------------|-----|----------------|
| No Other indicators used | | | | | | | |

| STATUS | SECURITY LEVEL | REGISTRATION NUMBER | REV. | LANG. | PAGE |
|----------|----------------|----------------------|------|-------|------|
| Approved | Public | ABBG-00521-V01.01-EN | 1 | en | 9/13 |
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Extrapolation Factors

 * if indicator is "0*", it represents less than 0,01% of the total life cycle of the reference flow

For other products than the Reference product covered by this PEP, the environmental impacts for each phase of the lifecycle are obtained by multiplying the values of the Reference product by the following coefficients (for the manufactoring phase the extrapolation the extrapolation factor is given for each indicator):

* if the coefficient is "1", the impacts of the phase of the life cycle are assimilated to the Reference product, meaning that the impacts are unchanged in comparison to the Reference product

| Product name | Manu- facturing | Distri- bution | Installation | Use | End of lif | e |
|-----------------------------------|--------------------|-------------------|-----------------------|------|------------|----------|
| ETL-1 | see below 1) | 1.01 | 1.00 | 1.00 | 1.01 | |
| 1) Manufacturing | | | | | | |
| Impact category | ETL-1 | | | | | |
| Climate change | 1.01 | | | | | |
| Ozone depletion | 1.01 | | | | | |
| Ionising radiation | 1.01 | | | | | |
| Photochemical ozone formation | 1.04 | | | | | |
| Particulate matter | 1.03 | | | | | |
| Human toxicity, non- cancer | 1.05 | | | | | |
| Human toxicity, cancer | 1.01 | | | | | |
| Acidification | 1.06 | | | | | |
| Eutrophication, freshwater | 1.04 | | | | | |
| Eutrophication, marine | 1.03 | | | | | |
| Eutrophication, terrestrial | 1.04 | | | | | |
| Ecotoxicity, freshwater | 1.03 | | | | | |
| Land use | 1.03 | | | | | |
| Water use, evaporation only | 1.04 | | | | | |
| Water use | 1.10 | | | | | |
| Resource use, fossils | 1.01 | | | | | |
| Resource use, minerals and metals | 1.06 | | | | | |
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Environmental Impact Indicator Glossary

Impact indicators

| Indicator | Description | Distri- bution |
|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| Global warming potential (GWP) - total | Indicator of potential global warming caused by emissions to air contributing to the greenhouse effect. The total global warming potential (GWP-total) is the sum of three sub-categories of climate change. GWP-total = GWP-fossil + GWP-biogenic + GWP- land use and land use change | kg CO₂ eq. |
| Ozone depletion (ODP) | Emissions to air that contribute to the destruction of the stratospheric ozone layer | kg CFC-11 eq. |
| Acidification of soil and water (A) | Acidification of soils and water caused by the release of certain gases to the atmosphere, such as nitrogen oxides and sulphur oxides | H+ eq. |
| Eutrophication (E) | Indicator of the contribution to eutrophication of water by the enrichment of the aquatic ecosystem with nutritional elements, e.g. industrial or domestic effluents, agriculture, etc. This indicator is divided to three: freshwater, marine and terrestrial. | kg P eq., kg N eq., mole N eq. |
| Photochemical ozone creation (POCP) | Indicator of emissions of gases that affect the creation of photochemical ozone in the lower atmosphere (smog) because of the rays of the sun. | kg NMVOC eq. |
| Depletion of abiotic resources – elements (ADPe) | Indicator of the depletion of natural non-fossil resources | kg Sb eq. |
| Depletion of abiotic resources – fossil fuels (ADPf) | The use of non-renewable fossil resources in an unsustainable way (e.g. from material to waste) | MJ (lower heating value) |
| Water Deprivation potential (WDP) | Deprivation-weighted water consumption. Assesses the potential of water deprivation, to either humans or ecosystems, building on the assumption that the less water remaining available per area, the more likely another user will be deprived. | m³ eq. depr. |

Resource use indicators

| Indicator | Description | Distri- bution |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| Total use of primary energy | Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials) + Total use of renewable primary energy re-sources (primary energy and primary energy resources used as raw materials) | MJ (lower heating value) |

| STATUS | SECURITY LEVEL | REGISTRATION NUMBER | REV. | LANG. | PAGE |
|----------|----------------|----------------------|------|-------|-------|
| Approved | Public | ABBG-00521-V01.01-EN | 1 | en | 11/13 |

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| STATUS | SECURITY LEVEL | REGISTRATION NUMBER | REV. | LANG. | PAGE |
|----------|----------------|----------------------|------|-------|-------|
| Approved | Public | ABBG-00521-V01.01-EN | 1 | en | 12/13 |

| Registration number: | | ABBG-00521-V01.01-EN | Drafting Rules: | PCR-ed4-EN-2021 09 | 06 |
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| Verifier accreditation n | umber: | VH50 | Information and refere | nce documents: | www.pep-ecopassport.org |
| Date of issue: | 05-2024 | | Validity period: 5 yea | nrs | |
| Independent verificati | on of the d | eclaration and data, in complianc | e with ISO 14025: 2006 | | |
| Internal: 🔘 | Externa | l: • | | | |
| The PCR review was conducted by a panel of experts chaired by Julie Orgelet (DDemain) | | | | | |
| "PEPs are compliant with XP C08-100-1:2016 and EN 50693:2019 The components of the present PEP may not be compared with components from any other program. | | | | | |
| Document complies wi declarations" | th ISO 1402 | 5:2006 "Environmental labels and | declarations. Type III env | rironmental | PORT |

| STATUS | SECURITY LEVEL | REGISTRATION NUMBER | REV. | LANG. | PAGE |
|----------|----------------|----------------------|------|-------|-------|
| Approved | Public | ABBG-00521-V01.01-EN | 1 | en | 13/13 |