

 <i>Powering Business Worldwide</i>	Product Environmental Profile	
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	M22 Contact Element
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Representative product	M22-CK20 (Y7-107898) Product Category: Other Equipment- Passive and Non-Continuous Operation																																						
Description of the product	Eaton Moeller series M22 contact elements are vital for industrial control and automation. They open or close electrical circuits to control machinery, integrate into safety circuits for emergency stops, and pair with indicator lights to provide status feedback, enhancing system reliability and safety.																																						
Homogeneous Environmental Families Covered	The PEP concerns following product offerings from Eaton Moeller series M22 Contact Element as mentioned below: <table> <tr><td>Y7-107898</td><td>M22-CK20</td></tr> <tr><td>Y7-107899</td><td>M22-CK02</td></tr> <tr><td>Y7-107940</td><td>M22-CK11</td></tr> <tr><td>Y7-216385</td><td>M22-CK01</td></tr> <tr><td>Y7-262510</td><td>M22-CK01D</td></tr> <tr><td>Y7-216384</td><td>M22-CK10</td></tr> <tr><td>Y7-216387</td><td>M22-CKC01</td></tr> <tr><td>Y7-216386</td><td>M22-CKC10</td></tr> <tr><td>Y7-216378</td><td>M22-K01</td></tr> <tr><td>Y7-262165</td><td>M22-K01D</td></tr> <tr><td>Y7-216379</td><td>M22-K01-GVP</td></tr> <tr><td>Y7-150643</td><td>M22-K01PV6</td></tr> <tr><td>Y7-216376</td><td>M22-K10</td></tr> <tr><td>Y7-216377</td><td>M22-K10-GVP</td></tr> <tr><td>Y7-110835</td><td>M22-K10P</td></tr> <tr><td>Y7-216382</td><td>M22-KC01</td></tr> <tr><td>Y7-216383</td><td>M22-KC01-GVP</td></tr> <tr><td>Y7-216380</td><td>M22-KC10</td></tr> <tr><td>Y7-216381</td><td>M22-KC10-GVP</td></tr> </table>	Y7-107898	M22-CK20	Y7-107899	M22-CK02	Y7-107940	M22-CK11	Y7-216385	M22-CK01	Y7-262510	M22-CK01D	Y7-216384	M22-CK10	Y7-216387	M22-CKC01	Y7-216386	M22-CKC10	Y7-216378	M22-K01	Y7-262165	M22-K01D	Y7-216379	M22-K01-GVP	Y7-150643	M22-K01PV6	Y7-216376	M22-K10	Y7-216377	M22-K10-GVP	Y7-110835	M22-K10P	Y7-216382	M22-KC01	Y7-216383	M22-KC01-GVP	Y7-216380	M22-KC10	Y7-216381	M22-KC10-GVP
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Functional unit	'Switch on and off electrical power supply of the control unit with an electrical and/or mechanical control during 20 years of lifetime.'
Company information	EATON INDUSTRIES GMB Kompetenzzentrum Baederstrasse, Holzhausen, Germany, 56357 Email: productstewardship-es@eaton.com

Constituent Materials			
Reference product mass	3.33E-02 kg (With packaging)		
Category PEP Material	Material constituent	Mass (kg)	% Contribution
Metals	Copper	9.96E-03	29.9%
Metals	Steel Wire Rod	9.68E-03	29.1%
Plastics	Polyamide 66 GF30	8.39E-03	25.2%
Others	Cardboard	1.68E-03	5.0%
Plastics	Polyamide 6	1.51E-03	4.5%
Metals	Bronze	8.60E-04	2.6%
Plastics	Low Density Polyethylene	5.02E-04	1.5%
Others	Wood	5.00E-04	1.5%
Metals	Silver	1.82E-04	0.5%
Others	Label	2.50E-05	0.1%
Total		3.33E-02	100.00%

Substance Assessment
The representative product is compliant with the EU-RoHS Directive (2011/65/EU) and the product doesn't contain any substance listed as Substance-of-Very-High-Concern (SVHC) on the Candidate List of the EU-REACH Regulation (1907/2006/EC).

Additional Environmental Information	
Manufacturing	The reference product is assembled at an Eaton plant in Holzhausen, Germany holding management system certifications according to ISO 14001 standards.
Distribution	Eaton is committed to minimizing weight and volume of product and packaging with focus to optimize transport efficiency.
Installation	The installation process does not require any energy consumption and there is no waste other than the obsolete product packaging generated during this step.
Use	The product requires energy consumption during operation.
End of life	The recyclability rate of the overall product is 48.4% if it is properly dismantled prior to shredding. The rate is calculated based on "WEEE recyclability and recoverability calculation method" (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME).

Environmental Impacts
The calculation of the environmental impacts is the result of the Product's Life Cycle Analysis in accordance with ISO 14040/44, covering the entire lifecycle, i.e., "Cradle-to-Grave" including the following life cycle phases: production, distribution, installation, use and end of life.

System modelling was carried out using the commercial LCA software EIME v6.2.5-4 with database version CODDE-2024-04 - updated on 2024-06-04 Indicators Set: PEF EF 3.1 (Compliance: PEP ed.4, EN15804+A2) v2.0	
Manufacturing Phase	The product is assembled as well as packed at EATON INDUSTRIES GMB Kompetenzzentrum Baederstrasse, Holzhausen, Germany plant. Energy model used: Germany
Distribution Phase	Distribution of the product in its packaging from the Eaton's last logistics platform to the installation place in Europe is considered as per PCR rules.
Installation Phase	Product is installed in Europe. Installation of product and treatment of packaging waste are considered in this phase. There is no energy consumption for reference product. Energy model used: Europe
Use Phase	Reference lifetime: 20 Years Usage profile: The product has power loss of 0.05 W at full load condition. For non-continuous operation considering 30% of the loading rate and 30% of the use time rate, total losses are 0.23652 kWh over the 20 years. Product do not require any maintenance/replacement during useful life. Non-continuous operation is considered as per PSR-0005 section 3.15.2.1. Energy model used: Europe
End of life Phase	Product disposed with WEEE guidelines. Energy model used: Europe
Module-D	Module D is calculated according to PCR-ed4-EN-2021 09 06 based on the materials recycled and the modelled end-of-life scenario. It expresses the net benefits and loads beyond the boundaries of the system and are not to be included in the life cycle totals.

Environmental Impact Indicators: Mandatory

Mandatory environmental impact indicators	Units	Sum	A1-A3 - Manufacturing	A4 - Distribution	A5 - Installation	B6 - Operational energy use	C1-C4 - End of life	D - Benefits and loads beyond the system boundaries
Climate change – total (GWP)	kg CO2 eq.	3.64E-01	2.27E-01	7.93E-03	6.20E-03	8.34E-02	3.90E-02	-4.57E-02
Climate change - fossil fuels (GWP-f)	kg CO2 eq.	3.56E-01	2.25E-01	7.93E-03	2.65E-03	8.32E-02	3.77E-02	-4.67E-02
Climate change – biogenics (GWP-b)	kg CO2 eq.	7.47E-03	2.47E-03	0.00E+00	3.54E-03	1.53E-04	1.30E-03	1.02E-03
Climate change - land use and land use transformation (GWP-lu)	kg CO2 eq.	3.49E-08	1.13E-08	0.00E+00	0.00E+00	0.00E+00	2.36E-08	0.00E+00
Ozone depletion (ODP)	kg eq. CFC-11	1.69E-08	1.50E-08	1.22E-11	3.40E-11	4.04E-10	1.37E-09	-5.69E-09
Acidification (AP)	mole of H+ eq.	4.14E-03	3.38E-03	5.03E-05	7.63E-06	4.27E-04	2.73E-04	-1.15E-03
Freshwater eutrophication (EP-fw)	kg P eq.	6.38E-05	2.15E-05	2.98E-09	3.46E-08	2.19E-07	4.20E-05	-2.24E-07
Marine aquatic eutrophication (EP-m)	kg of N eq.	3.59E-04	2.43E-04	2.36E-05	2.90E-06	5.20E-05	3.84E-05	-3.83E-05
Terrestrial eutrophication (EP-t)	mole of N eq.	3.74E-03	2.14E-03	2.59E-04	2.34E-05	8.36E-04	4.86E-04	-4.23E-04
Photochemical ozone formation (POCP)	kg of NMVOC eq.	1.13E-03	7.63E-04	6.52E-05	5.48E-06	1.64E-04	1.32E-04	-1.97E-04

Mandatory environmental impact indicators	Units	Sum	A1-A3 - Manufacturing	A4 - Distribution	A5 - Installation	B6 - Operational energy use	C1-C4 - End of life	D - Benefits and loads beyond the system boundaries
Depletion of abiotic resources – elements (ADPe)	kg eq. Sb	2.55E-04	2.53E-04	3.13E-10	1.11E-10	2.95E-08	1.36E-06	-1.03E-04
Depletion of abiotic resources - fossil fuels (ADP-f)	MJ	9.28E+00	5.16E+00	1.11E-01	2.43E-02	2.10E+00	1.88E+00	-1.20E+00
Water scarcity (WDP)	m3 of eq. deprivation worldwide	6.17E-01	5.67E-01	3.02E-05	1.79E-04	6.39E-03	4.33E-02	-2.06E-01

*Only B6 (Energy Consumption) are taken into account, the other sub-modules of the use phase (B1, B3-B5, B7) are zero.

Inventory Flow Indicators: Mandatory

Inventory flow indicators	Units	Sum	A1-A3 - Manufacturing	A4 - Distribution	A5 - Installation	B6 - Operational energy use	C1-C4 - End of life	D - Benefits and loads beyond the system boundaries
Use of renewable primary energy, excluding renewable primary energy resources used as raw materials	MJ	7.72E-01	1.73E-01	1.48E-04	5.48E-03	5.57E-01	3.68E-02	-3.44E-02
Use of renewable primary energy resources used as raw materials	MJ	1.86E-01	1.86E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-2.79E-02
Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	MJ	9.58E-01	3.59E-01	1.48E-04	5.48E-03	5.57E-01	3.68E-02	-6.23E-02
Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	MJ	8.98E+00	4.86E+00	1.11E-01	2.43E-02	2.10E+00	1.88E+00	-1.19E+00
Use of non-renewable primary energy resources used as raw materials	MJ	3.04E-01	3.04E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-9.73E-03
Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	MJ	9.28E+00	5.16E+00	1.11E-01	2.43E-02	2.10E+00	1.88E+00	-1.20E+00
Use of secondary materials	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Net use of fresh water	m3	1.44E-02	1.32E-02	7.02E-07	1.30E-05	1.50E-04	1.01E-03	-4.80E-03
Hazardous waste disposed of	kg	2.40E+00	2.36E+00	0.00E+00	2.37E-04	3.65E-03	3.63E-02	-9.58E-01
Non-hazardous waste disposed of	kg	4.77E-02	2.43E-02	2.79E-04	1.11E-03	1.41E-02	7.99E-03	-4.02E-03
Radioactive waste disposed of	kg	1.70E-05	1.19E-05	1.99E-07	1.61E-07	3.23E-06	1.47E-06	-3.31E-06
Components for re-use	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling	kg	3.00E-02	1.39E-02	0.00E+00	1.76E-03	0.00E+00	1.43E-02	0.00E+00
Materials for energy recovery	kg	1.57E-03	1.07E-03	0.00E+00	5.03E-04	0.00E+00	0.00E+00	0.00E+00
Exported energy	MJ by energy vector	2.53E-04	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	0.00E+00
Biogenic carbon content of the product	kg of C.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Inventory flow indicators	Units	Sum	A1-A3 - Manufacturing	A4 - Distribution	A5 - Installation	B6 - Operational energy use	C1-C4 - End of life	D - Benefits and loads beyond the system boundaries
Biogenic carbon content of the associated packaging	kg of C.	9.24E-04	9.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Environmental Impact Indicators: Optional

Optional Environmental impact indicators	Units	Sum	A1-A3 - Manufacturing	A4 - Distribution	A5 - Installation	B6 - Operational energy use	C1-C4 - End of life	D - Benefits and loads beyond the system boundaries
Emission of fine particles	incidence of diseases	2.58E-08	2.04E-08	4.09E-10	4.66E-11	3.44E-09	1.55E-09	-7.00E-09
Ionizing radiation, human health	kBq of U235 eq.	4.19E+00	4.07E+00	1.93E-05	4.29E-04	1.20E-01	4.18E-03	-1.67E+00
Ecotoxicity, fresh water	CTUe	4.28E+01	4.13E+01	5.20E-03	3.01E-02	1.57E-01	1.30E+00	-5.11E-01
Human toxicity, cancer effects	CTUh	1.17E-08	1.14E-08	1.40E-13	2.05E-10	1.05E-11	4.51E-11	-3.71E-09
Human toxicity, non-cancer effects	CTUh	4.08E-08	3.72E-08	2.70E-12	7.27E-12	2.50E-10	3.43E-09	-1.43E-08
Impacts related to land use/soil quality	-	1.85E-01	5.93E-02	0.00E+00	8.04E-06	2.31E-03	1.24E-01	-1.55E-04
Total use of primary energy during the life cycle	MJ	1.02E+01	5.52E+00	1.11E-01	2.97E-02	2.66E+00	1.92E+00	-1.26E+00

*Only B6 (Energy Consumption) are taken into account, the other sub-modules of the use phase (B1, B3-B5, B7) are zero

To evaluate the environmental impact of other product covered by this PEP, multiply the impact figures by-

Factors for Manufacturing, Distribution, Installation, End-of-Life, and Module-D Phase:

Product Number	Product Number	Phases	GWP (kg CO ₂ eq.)	GWP-f (kg CO ₂ eq.)	GWP-b (kg CO ₂ eq.)	GWP-lu (kg CO ₂ eq.)	ODP (kg CFC- 11 eq.)	AP (mol H+ eq.)	EP- fw (kg P eq.)	EP-m (kg N eq.)	EP-t (mol N eq.)	POCP (kg NMVOC eq.)	ADP- e (kg Sb eq.)	ADP- f (MJ)	WDP (m3 eq.)
Y7-107898	M22-CK20	All Phases Except Use Phase	1.00												
Y7-107899	M22-CK02	All Phases Except Use Phase	1.00												
Y7-107940	M22-CK11	All Phases Except Use Phase	1.00												
Y7-216385	M22-CK01	Manufacturing	0.69	0.70	0.30	0.41	0.41	0.48	0.43	0.73	0.66	0.59	0.32	0.64	0.48
		Distribution	0.64	0.64	1.00	1.00	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
		Installation	0.90	0.92	0.89	1.00	0.96	0.96	0.97	0.97	0.96	0.95	0.97	0.96	0.98
		End of life	2.20	2.20	2.20	1.00	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20

Product Number	Product Number	Phases	GWP (kg CO ₂ eq.)	GWP-f (kg CO ₂ eq.)	GWP-b (kg CO ₂ eq.)	GWP-lu (kg CO ₂ eq.)	ODP (kg CFC-11 eq.)	AP (mol H+ eq.)	EP-fw (kg P eq.)	EP-m (kg N eq.)	EP-t (mol N eq.)	POCP (kg NMVOC eq.)	ADP-e (kg Sb eq.)	ADP-f (MJ)	WDP (m3 eq.)
		Module-D	0.50	0.50	0.41	0.41	0.55	0.48	0.40	0.54	0.54	0.52	0.40	0.48	0.42
Y7-262510	M22-CK01D	Manufacturing	0.69	0.70	0.30	0.41	0.41	0.48	0.43	0.73	0.66	0.59	0.32	0.64	0.48
		Distribution	0.64	0.64	1.00	1.00	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
		Installation	0.90	0.92	0.89	1.00	0.96	0.96	0.97	0.97	0.96	0.95	0.97	0.96	0.98
		End of life	2.20	2.20	2.20	1.00	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
		Module-D	0.50	0.50	0.41	0.41	0.55	0.48	0.40	0.54	0.54	0.52	0.40	0.48	0.42
Y7-216384	M22-CK10	Manufacturing	0.69	0.70	0.30	0.41	0.41	0.48	0.43	0.73	0.66	0.59	0.32	0.64	0.48
		Distribution	0.64	0.64	1.00	1.00	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
		Installation	0.90	0.92	0.89	1.00	0.96	0.96	0.97	0.97	0.96	0.95	0.97	0.96	0.98
		End of life	2.20	2.20	2.20	1.00	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
		Module-D	0.50	0.50	0.41	0.41	0.55	0.48	0.40	0.54	0.54	0.52	0.40	0.48	0.42
Y7-216387	M22-CKC01	Manufacturing	0.69	0.70	0.30	0.41	0.41	0.48	0.43	0.73	0.66	0.59	0.32	0.64	0.48
		Distribution	0.64	0.64	1.00	1.00	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
		Installation	0.90	0.92	0.89	1.00	0.96	0.96	0.97	0.97	0.96	0.95	0.97	0.96	0.98
		End of life	2.20	2.20	2.20	1.00	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
		Module-D	0.50	0.50	0.41	0.41	0.55	0.48	0.40	0.54	0.54	0.52	0.40	0.48	0.42
Y7-216386	M22-CKC10	Manufacturing	0.69	0.70	0.30	0.41	0.41	0.48	0.43	0.73	0.66	0.59	0.32	0.64	0.48
		Distribution	0.64	0.64	1.00	1.00	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
		Installation	0.90	0.92	0.89	1.00	0.96	0.96	0.97	0.97	0.96	0.95	0.97	0.96	0.98
		End of life	2.20	2.20	2.20	1.00	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
		Module-D	0.50	0.50	0.41	0.41	0.55	0.48	0.40	0.54	0.54	0.52	0.40	0.48	0.42
Y7-216378	M22-K01	Manufacturing	0.62	0.63	-0.10	0.29	0.70	0.28	0.21	0.68	0.61	0.51	0.34	0.52	0.40
		Distribution	0.49	0.49	1.00	1.00	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
		Installation	0.90	0.91	0.88	1.00	0.95	0.96	0.97	0.96	0.95	0.94	0.96	0.96	0.97
		End of life	2.20	2.20	2.20	1.00	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
		Module-D	0.39	0.40	0.11	0.29	0.33	0.33	0.19	0.41	0.39	0.40	0.18	0.40	0.17
Y7-262165	M22-K01D	Manufacturing	0.62	0.63	-0.10	0.29	0.70	0.28	0.21	0.68	0.61	0.51	0.34	0.52	0.40
		Distribution	0.49	0.49	1.00	1.00	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
		Installation	0.90	0.91	0.88	1.00	0.95	0.96	0.97	0.96	0.95	0.94	0.96	0.96	0.97
		End of life	2.20	2.20	2.20	1.00	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
		Module-D	0.39	0.40	0.11	0.29	0.33	0.33	0.19	0.41	0.39	0.40	0.18	0.40	0.17
Y7-216379	M22-K01-GVP	Manufacturing	0.62	0.63	-0.10	0.29	0.70	0.28	0.21	0.68	0.61	0.51	0.34	0.52	0.40
		Distribution	0.49	0.49	1.00	1.00	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
		Installation	0.90	0.91	0.88	1.00	0.95	0.96	0.97	0.96	0.95	0.94	0.96	0.96	0.97
		End of life	2.20	2.20	2.20	1.00	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
		Module-D	0.39	0.40	0.11	0.29	0.33	0.33	0.19	0.41	0.39	0.40	0.18	0.40	0.17
Y7-150643	M22-K01PV6	Manufacturing	0.62	0.63	-0.10	0.29	0.70	0.28	0.21	0.68	0.61	0.51	0.34	0.52	0.40
		Distribution	0.49	0.49	1.00	1.00	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
		Installation	0.90	0.91	0.88	1.00	0.95	0.96	0.97	0.96	0.95	0.94	0.96	0.96	0.97

Product Number	Product Number	Phases	GWP (kg CO ₂ eq.)	GWP-f (kg CO ₂ eq.)	GWP-b (kg CO ₂ eq.)	GWP-lu (kg CO ₂ eq.)	ODP (kg CFC-11 eq.)	AP (mol H+ eq.)	EP-fw (kg P eq.)	EP-m (kg N eq.)	EP-t (mol N eq.)	POCP (kg NMVOC eq.)	ADP-e (kg Sb eq.)	ADP-f (MJ)	WDP (m3 eq.)
		End of life	2.20	2.20	2.20	1.00	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
		Module-D	0.39	0.40	0.11	0.29	0.33	0.33	0.19	0.41	0.39	0.40	0.18	0.40	0.17
Y7-216376	M22-K10	Manufacturing	0.62	0.63	-0.10	0.29	0.70	0.28	0.21	0.68	0.61	0.51	0.34	0.52	0.40
		Distribution	0.49	0.49	1.00	1.00	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
		Installation	0.90	0.91	0.88	1.00	0.95	0.96	0.97	0.96	0.95	0.94	0.96	0.96	0.97
		End of life	2.20	2.20	2.20	1.00	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
		Module-D	0.39	0.40	0.11	0.29	0.33	0.33	0.19	0.41	0.39	0.40	0.18	0.40	0.17
Y7-216377	M22-K10-GVP	Manufacturing	0.62	0.63	-0.10	0.29	0.70	0.28	0.21	0.68	0.61	0.51	0.34	0.52	0.40
		Distribution	0.49	0.49	1.00	1.00	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
		Installation	0.90	0.91	0.88	1.00	0.95	0.96	0.97	0.96	0.95	0.94	0.96	0.96	0.97
		End of life	2.20	2.20	2.20	1.00	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
		Module-D	0.39	0.40	0.11	0.29	0.33	0.33	0.19	0.41	0.39	0.40	0.18	0.40	0.17
Y7-110835	M22-K10P	Manufacturing	0.62	0.63	-0.10	0.29	0.70	0.28	0.21	0.68	0.61	0.51	0.34	0.52	0.40
		Distribution	0.49	0.49	1.00	1.00	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
		Installation	0.90	0.91	0.88	1.00	0.95	0.96	0.97	0.96	0.95	0.94	0.96	0.96	0.97
		End of life	2.20	2.20	2.20	1.00	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
		Module-D	0.39	0.40	0.11	0.29	0.33	0.33	0.19	0.41	0.39	0.40	0.18	0.40	0.17
Y7-216382	M22-KC01	Manufacturing	0.62	0.63	-0.10	0.29	0.70	0.28	0.21	0.68	0.61	0.51	0.34	0.52	0.40
		Distribution	0.49	0.49	1.00	1.00	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
		Installation	0.90	0.91	0.88	1.00	0.95	0.96	0.97	0.96	0.95	0.94	0.96	0.96	0.97
		End of life	2.20	2.20	2.20	1.00	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
		Module-D	0.39	0.40	0.11	0.29	0.33	0.33	0.19	0.41	0.39	0.40	0.18	0.40	0.17
Y7-216383	M22-KC01-GVP	Manufacturing	0.62	0.63	-0.10	0.29	0.70	0.28	0.21	0.68	0.61	0.51	0.34	0.52	0.40
		Distribution	0.49	0.49	1.00	1.00	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
		Installation	0.90	0.91	0.88	1.00	0.95	0.96	0.97	0.96	0.95	0.94	0.96	0.96	0.97
		End of life	2.20	2.20	2.20	1.00	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
		Module-D	0.39	0.40	0.11	0.29	0.33	0.33	0.19	0.41	0.39	0.40	0.18	0.40	0.17
Y7-216380	M22-KC10	Manufacturing	0.62	0.63	-0.10	0.29	0.70	0.28	0.21	0.68	0.61	0.51	0.34	0.52	0.40
		Distribution	0.49	0.49	1.00	1.00	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
		Installation	0.90	0.91	0.88	1.00	0.95	0.96	0.97	0.96	0.95	0.94	0.96	0.96	0.97
		End of life	2.20	2.20	2.20	1.00	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
		Module-D	0.39	0.40	0.11	0.29	0.33	0.33	0.19	0.41	0.39	0.40	0.18	0.40	0.17
Y7-216381	M22-KC10-GVP	Manufacturing	0.62	0.63	-0.10	0.29	0.70	0.28	0.21	0.68	0.61	0.51	0.34	0.52	0.40
		Distribution	0.49	0.49	1.00	1.00	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
		Installation	0.90	0.91	0.88	1.00	0.95	0.96	0.97	0.96	0.95	0.94	0.96	0.96	0.97
		End of life	2.20	2.20	2.20	1.00	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
		Module-D	0.39	0.40	0.11	0.29	0.33	0.33	0.19	0.41	0.39	0.40	0.18	0.40	0.17

Multiplying Factors for Use Phase for homogenous products:

Part Number	Product Description	Equipment heat dissipation, current-dependent (W)	Use Phase Extrapolation Factors
Y7-107898 (Reference)	M22-CK20	0.05	1.00
Y7-107899	M22-CK02	0.05	1.00
Y7-107940	M22-CK11	0.05	1.00
Y7-216385	M22-CK01	0.11	2.20
Y7-262510	M22-CK01D	0.11	2.20
Y7-216384	M22-CK10	0.11	2.20
Y7-216387	M22-CKC01	0.11	2.20
Y7-216386	M22-CKC10	0.11	2.20
Y7-216378	M22-K01	0.11	2.20
Y7-262165	M22-K01D	0.11	2.20
Y7-216379	M22-K01-GVP	0.11	2.20
Y7-150643	M22-K01PV6	0.11	2.20
Y7-216376	M22-K10	0.11	2.20
Y7-216377	M22-K10-GVP	0.11	2.20
Y7-110835	M22-K10P	0.11	2.20
Y7-216382	M22-KC01	0.11	2.20
Y7-216383	M22-KC01-GVP	0.11	2.20
Y7-216380	M22-KC10	0.11	2.20
Y7-216381	M22-KC10-GVP	0.11	2.20

Disclaimer

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Registration Number	EATO-00317-V01.01-EN	Drafting rules	PCR-ed4-EN-2021 09 06
Verifier accreditation Number	VH56	Supplemented by	PSR-0005-ed3.1-EN-2023 12 08
Date of issue	04-2025	Information and reference documents	www.pep-ecopassport.org
		Validity period	5 years
Independent verification of the declaration and data, in compliance with ISO 14025: 2006			
Internal	X	External	
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 with ISO 14025: 2006 « Environmental labels and declarations. Type III environmental declarations »			