



Power Contactor - BG2 Schraube DC

Representative product	DILM17-01(RDC24) BG2 Schraube DC (Y7-277050) Product Category: Contactors, Remote Control Switch
Description of the product	Eaton's Power Contactors DILM17-01(RDC24) is designed to establish and cut off the supply of a downstream installation from an electrical and/or mechanical control in industrial application areas. The reference product has 3 poles, can operate at 690V AC, Control Circuit Voltage of 24V DC, having 1 auxiliary contact point and have screw terminals.
Homogeneous Environmental Families Covered	The PEP concerns following product offerings from Eaton's Power Contactors DILM - DILM17-01(RDC24) as mentioned below: <ul style="list-style-type: none"> • Series: DILM, CN, DILMF, DILMS, DILMC • Amperage Rating: 8,11,13,14,17,25,32,38 Amp. • Control Circuit Voltage: 10,12,24,48,60,120,130,240 V. • Voltage Type: RAC, RDC
Functional unit	Establish and cut off the supply of a downstream installation from an electrical and/or mechanical control characterized by composition of 3 NO main poles, contact type of 1 NC auxiliary contact, a rated voltage of 690V AC, a rated current of 18A at AC-3, a control circuit voltage of 24V DC, with 4 poles, with IP00 rating, industrial application areas, according to the industrial use scenario, and during the reference service life of 20 years.
Company information	Eaton Electro Productie s.r.l, Independentei 8, Sarbi, Romania, 437157 Email: productstewardship-es@eaton.com

Constituent Materials			
Reference product mass	5.69E-01 Kg (With packaging)		
Category PEP Material	Material constituent	Mass (kg)	% Contribution
Metals	Steel	1.77E-01	31.2%
Others	Printed Wire Board	1.59E-01	27.9%
Plastics	Polyamide	1.18E-01	20.8%
Metals	Stainless steel	5.28E-02	9.3%
Metals	Brass	2.86E-02	5.0%
Others	Carton	1.95E-02	3.4%
Others	Wood	5.47E-03	1.0%
Metals	Silver	4.27E-03	0.8%
Metals	Copper	1.46E-03	0.3%
Plastics	Silicon Rubber	9.86E-04	0.2%
Others	Label	8.70E-04	0.2%
Plastics	LDPE (low density polyethylene)	4.00E-04	0.1%
Metals	Bronze	2.58E-04	<0.1%
Total		5.69E-01	100.00%

Substance Assessment

The representative product is compliant with the EU-RoHS Directive (2011/65/EU) without any exemption 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 Sarbi, Romania 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 77.27% if it is properly dismantled prior to shredding. The rate is calculated based on "ECO'DEEE recyclability and recoverability calculation method" (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME).

Environmental Impacts	
<p>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.</p> <p>System modelling was carried out using the commercial LCA software EIME v6.2-22 with database version CODDE-2023-02.</p> <p>Indicators Set: PEF EF 3.0 (Compliance: PEP ed.4, EN15804+A2) v2.0</p>	
Manufacturing Phase	<p>The product is assembled as well as packed at Eaton facility Eaton Electro Productie s.r.l, Independentei 8, Sarbi, Romania plant.</p> <p>Energy model used: Romania, Europe</p>
Distribution Phase	<p>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.</p>
Installation Phase	<p>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.</p> <p>Energy model used: Europe</p>
Use Phase	<p>Reference lifetime: 20 Years</p> <p>Usage profile: The product has power loss of 2.1W at full load condition. For Industrial applications considering 50% of the loading rate and 50% of the use time rate, total losses are 45.99 kWh over the 20 years.</p> <p>Product do not require any maintenance/replacement during useful life.</p> <p>Energy Model Used: Europe</p>
End of life Phase	<p>Product disposed with WEEE guidelines.</p> <p>Energy model used: Europe</p>
Module-D	<p>Module D is calculated according to PCR-ed4-EN-2021 09 06 based on the materials recycled and the modelled end-of-life scenario.</p> <p>It expresses the net benefits and loads beyond the boundaries of the system and are not to be included in the life cycle totals.</p>

Environmental Impact Indicators: Mandatory

Mandatory environmental impact indicators	Units	Sum	Manufacturing	Distribution	Installation	Use (Only B6)	End of life	Module-D
Resource use, minerals, and metals (ADPe)	kg SB eq.	1.75E-02	1.75E-02	5.34E-09	5.86E-10	1.37E-06	5.58E-06	-3.02E-03
Resource use, fossils (ADPf)	MJ	7.63E+02	2.29E+02	1.89E+00	2.18E-01	4.80E+02	5.19E+01	-5.44E+01
Acidification (AP)	mole of H ⁺ eq.	1.89E-01	6.85E-02	8.59E-04	6.59E-05	1.08E-01	1.16E-02	-1.20E-02
Eutrophication, freshwater (Epf)	kg P eq.	3.52E-04	1.14E-04	5.09E-08	3.29E-07	5.16E-05	1.85E-04	-9.87E-06
Eutrophication marine (Epm)	kg N eq.	2.70E-02	8.16E-03	4.03E-04	3.15E-05	1.22E-02	6.16E-03	-1.87E-03
Eutrophication, terrestrial (Ept)	mol N eq.	2.80E-01	8.20E-02	4.42E-03	2.01E-04	1.84E-01	9.35E-03	-1.36E-02
Climate change (GWP)	kg CO ₂ eq.	2.98E+01	9.69E+00	1.36E-01	2.83E-02	1.88E+01	1.05E+00	-1.96E+00
Climate change-Biogenic (GWPb)	kg CO ₂ eq.	5.67E-02	9.79E-03	0.00E+00	1.03E-03	2.51E-02	2.07E-02	-5.05E-03

Mandatory environmental impact indicators	Units	Sum	Manufacturing	Distribution	Installation	Use (Only B6)	End of life	Module-D
Climate change-Fossil (GWPf)	kg CO ₂ eq.	2.97E+01	9.68E+00	1.36E-01	2.72E-02	1.88E+01	1.03E+00	-1.96E+00
Climate change-Land use and land use change (GWPlu)	kg CO ₂ eq.	2.41E-07	8.39E-08	0.00E+00	-1.39E-10	0.00E+00	1.58E-07	0.00E+00
Ozone depletion (ODP)	kg CFC-11 eq.	1.03E-06	8.77E-07	2.08E-10	3.02E-10	8.06E-08	7.03E-08	-1.53E-07
Photochemical ozone formation - human health (POCP)	kg NMVOC eq.	7.23E-02	2.86E-02	1.11E-03	4.80E-05	3.92E-02	3.34E-03	-4.68E-03
Water use (WU)	m ³ eq	1.08E+02	2.84E+00	5.15E-04	2.24E-03	6.67E-01	1.05E+02	-9.48E-01

Inventory Flow Indicators: Mandatory

Inventory flow indicators	Units	Sum	Manufacturing	Distribution	Installation	Use (Only B6)	End of life	Module-D
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	9.71E+01	4.18E+00	2.53E-03	5.28E-02	9.22E+01	6.38E-01	-3.88E-01
Use of renewable primary energy resources used as raw material	MJ	4.55E-01	4.55E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-3.20E-01
Total use of renewable primary energy resources	MJ	9.75E+01	4.63E+00	2.53E-03	5.28E-02	9.22E+01	6.38E-01	-7.08E-01
Use of non-renewable primary energy excluding non-renewable primary energy used as raw material	MJ	7.58E+02	2.24E+02	1.89E+00	2.18E-01	4.80E+02	5.19E+01	-5.20E+01
Use of non-renewable primary energy resources used as raw material	MJ	4.84E+00	4.84E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-2.46E+00
Total use of non-renewable primary energy resources	MJ	7.63E+02	2.29E+02	1.89E+00	2.18E-01	4.80E+02	5.19E+01	-5.44E+01
Use of secondary material	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 freshwater	m ³	2.84E+00	6.62E-02	1.20E-05	5.22E-05	1.55E-02	2.76E+00	-2.21E-02
Components for reuse	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	5.39E-01	1.16E-01	0.00E+00	1.86E-03	0.00E+00	4.21E-01	0.00E+00
Materials for energy recovery	kg	2.10E-02	1.96E-04	0.00E+00	3.68E-03	0.00E+00	1.71E-02	0.00E+00
Exported Energy	MJ	1.81E-03	0.00E+00	0.00E+00	1.81E-03	0.00E+00	0.00E+00	0.00E+00
Hazardous waste disposed	kg	2.17E+01	2.06E+01	0.00E+00	5.45E-04	3.52E-01	7.04E-01	-1.16E+01
Nonhazardous waste disposed	kg	5.12E+00	2.07E+00	4.76E-03	1.34E-02	2.71E+00	3.22E-01	-5.76E-01
Radioactive waste disposed	kg	1.93E-03	1.12E-03	3.39E-06	1.21E-06	5.68E-04	2.42E-04	-1.18E-04
Biogenic carbon content of the product	kg C	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Biogenic carbon content of the associated packaging	kg C	7.95E-03	7.95E-03	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	Manufacturing	Distribution	Installation	Use (Only B6)	End of life	Module-D
Ecotoxicity, freshwater	CTUe	5.50E+02	1.36E+02	9.14E-02	2.76E-01	2.03E+02	2.11E+02	-2.39E+01
Human toxicity, cancer	CTUh	7.19E-07	5.61E-07	2.38E-12	2.47E-09	2.20E-09	1.53E-07	-3.15E-07
Human toxicity, non-cancer	CTUh	4.85E-07	3.11E-07	2.58E-10	1.05E-10	8.72E-08	8.68E-08	-1.33E-07
Ionising radiation, human health	kBq U ²³⁵ eq.	4.56E+01	1.75E+01	3.31E-04	3.39E-03	2.80E+01	5.86E-02	-5.79E+00
Land use	No dimension	2.23E+00	2.13E-01	0.00E+00	1.87E-03	3.75E-01	1.64E+00	0.00E+00
EF-particulate Matter	Disease occurrence	1.36E-06	4.75E-07	6.99E-09	3.97E-10	8.35E-07	4.17E-08	-1.25E-07
Total Primary Energy	MJ	8.61E+02	2.34E+02	1.90E+00	2.71E-01	5.72E+02	5.25E+01	-5.51E+01

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 Name	Part Number	Phases	ADPe (kg Sb eq.)	ADPf (MJ)	AP (mol H ⁺ eq.)	Epf (kg P eq.)	Epm (kg N eq.)	Ept (mol N eq.)	GWP (kg CO ₂ eq.)	GWPb (kg CO ₂ eq.)	GWPf (kg CO ₂ eq.)	GWPlu (kg CO ₂ eq.)	ODP (kg CFC-11 eq.)	POCP (kg NMVOC eq.)	WU (m ³ eq.)
DILM17-01(RDC24) (Reference)	Y7-277050	All Phase except Use Phase							1.00						
CN13BN010TD	Y7-150408	All Phase except Use Phase							1.00						
CN13CN010TD	Y7-150409	All Phase except Use Phase							1.00						
DILMF8-10(RAC24)	Y7-104410	All Phase except Use Phase							1.00						
DILMF8-10(RAC48)	Y7-104411	All Phase except Use Phase							1.00						
DILMF8-10(RAC120)	Y7-104412	All Phase except Use Phase							1.00						
DILMF8-10(RAC240)	Y7-104413	All Phase except Use Phase							1.00						
DILMF8-01(RAC24)	Y7-104414	All Phase except Use Phase							1.00						
DILMF8-01(RAC48)	Y7-104415	All Phase except Use Phase							1.00						
DILMF8-01(RAC120)	Y7-104416	All Phase except Use Phase							1.00						
DILMF8-01(RAC240)	Y7-104417	All Phase except Use Phase							1.00						
DILMF11-10(RAC24)	Y7-104418	All Phase except Use Phase							1.00						

Product Name	Part Number	Phases	ADPe (kg Sb eq.)	ADPf (MJ)	AP (mol H ⁺ eq.)	Epf (kg P eq.)	Epm (kg N eq.)	Ept (mol N eq.)	GWP (kg CO ₂ eq.)	GWPb (kg CO ₂ eq.)	GWPf (kg CO ₂ eq.)	GWPlu (kg CO ₂ eq.)	ODP (kg CFC-11 eq.)	POCP (kg NMVOC eq.)	WU (m ³ eq.)
DILMF11-10(RAC48)	Y7-104419	All Phase except Use Phase							1.00						
DILMF11-10(RAC120)	Y7-104420	All Phase except Use Phase							1.00						
DILMF11-10(RAC240)	Y7-104421	All Phase except Use Phase							1.00						
DILMF11-01(RAC24)	Y7-104422	All Phase except Use Phase							1.00						
DILMF11-01(RAC48)	Y7-104423	All Phase except Use Phase							1.00						
DILMF11-01(RAC120)	Y7-104424	All Phase except Use Phase							1.00						
DILMF11-01(RAC240)	Y7-104425	All Phase except Use Phase							1.00						
DILMF14-10(RAC24)	Y7-104426	All Phase except Use Phase							1.00						
DILMF14-10(RAC48)	Y7-104427	All Phase except Use Phase							1.00						
DILMF14-10(RAC120)	Y7-104428	All Phase except Use Phase							1.00						
DILMF14-10(RAC240)	Y7-104429	All Phase except Use Phase							1.00						
DILMF14-01(RAC24)	Y7-104430	All Phase except Use Phase							1.00						
DILMF14-01(RAC48)	Y7-104431	All Phase except Use Phase							1.00						
DILMF14-01(RAC120)	Y7-104432	All Phase except Use Phase							1.00						
DILMF14-01(RAC240)	Y7-104433	All Phase except Use Phase							1.00						
DILMF17-10(RAC24)	Y7-104434	All Phase except Use Phase							1.00						
DILMF17-10(RAC48)	Y7-104435	All Phase except Use Phase							1.00						
DILMF17-10(RAC120)	Y7-104436	All Phase except Use Phase							1.00						
DILMF17-10(RAC240)	Y7-104437	All Phase except Use Phase							1.00						
DILMF17-01(RAC24)	Y7-104438	All Phase except Use Phase							1.00						

Product Name	Part Number	Phases	ADPe (kg Sb eq.)	ADPf (MJ)	AP (mol H ⁺ eq.)	Epf (kg P eq.)	Epm (kg N eq.)	Ept (mol N eq.)	GWP (kg CO ₂ eq.)	GWPb (kg CO ₂ eq.)	GWPf (kg CO ₂ eq.)	GWPlu (kg CO ₂ eq.)	ODP (kg CFC-11 eq.)	POCP (kg NMVOC eq.)	WU (m ³ eq.)
DILMF17-01(RAC48)	Y7-104439	All Phase except Use Phase							1.00						
DILMF17-01(RAC120)	Y7-104440	All Phase except Use Phase							1.00						
DILMF17-01(RAC240)	Y7-104441	All Phase except Use Phase							1.00						
DILMF25-10(RAC24)	Y7-104442	All Phase except Use Phase							1.00						
DILMF25-10(RAC48)	Y7-104443	All Phase except Use Phase							1.00						
DILMF25-10(RAC120)	Y7-104444	All Phase except Use Phase							1.00						
DILMF25-10(RAC240)	Y7-104445	All Phase except Use Phase							1.00						
DILMF25-01(RAC24)	Y7-104446	All Phase except Use Phase							1.00						
DILMF25-01(RAC48)	Y7-104447	All Phase except Use Phase							1.00						
DILMF25-01(RAC120)	Y7-104448	All Phase except Use Phase							1.00						
DILMF25-01(RAC240)	Y7-104449	All Phase except Use Phase							1.00						
DILMF32-10(RAC24)	Y7-104450	All Phase except Use Phase							1.00						
DILMF32-10(RAC48)	Y7-104451	All Phase except Use Phase							1.00						
DILMF32-10(RAC120)	Y7-104452	All Phase except Use Phase							1.00						
DILMF32-10(RAC240)	Y7-104453	All Phase except Use Phase							1.00						
DILMF32-01(RAC24)	Y7-104454	All Phase except Use Phase							1.00						
DILMF32-01(RAC48)	Y7-104455	All Phase except Use Phase							1.00						
DILMF32-01(RAC120)	Y7-104456	All Phase except Use Phase							1.00						
DILMF32-01(RAC240)	Y7-104457	All Phase except Use Phase							1.00						
DILM25-01(RDC12)	Y7-104811	All Phase except Use Phase							1.00						

Product Name	Part Number	Phases	ADPe (kg Sb eq.)	ADPf (MJ)	AP (mol H ⁺ eq.)	Epf (kg P eq.)	Epm (kg N eq.)	Ept (mol N eq.)	GWP (kg CO ₂ eq.)	GWPb (kg CO ₂ eq.)	GWPf (kg CO ₂ eq.)	GWPlu (kg CO ₂ eq.)	ODP (kg CFC-11 eq.)	POCP (kg NMVOC eq.)	WU (m ³ eq.)
DILM25-10(RDC12)	Y7-104812	All Phase except Use Phase							1.00						
DILM38-10(RDC24)	Y7-112442	All Phase except Use Phase							1.00						
DILM38-10(RDC60)	Y7-112443	All Phase except Use Phase							1.00						
DILM38-10(RDC130)	Y7-112444	All Phase except Use Phase							1.00						
DILM38-10(RDC240)	Y7-112445	All Phase except Use Phase							1.00						
DILM38-01(RDC24)	Y7-112470	All Phase except Use Phase							1.00						
DILM38-01(RDC60)	Y7-112471	All Phase except Use Phase							1.00						
DILM38-01(RDC130)	Y7-112472	All Phase except Use Phase							1.00						
DILM38-01(RDC240)	Y7-112473	All Phase except Use Phase							1.00						
DILM17-10-EA(RDC24)	Y7-189910	All Phase except Use Phase							1.00						
DILM17-01-EA(RDC24)	Y7-189912	All Phase except Use Phase							1.00						
DILM25-10-EA(RDC24)	Y7-189914	All Phase except Use Phase							1.00						
DILM25-01-EA(RDC24)	Y7-189916	All Phase except Use Phase							1.00						
DILM32-10-EA(RDC24)	Y7-189918	All Phase except Use Phase							1.00						
DILM32-01-EA(RDC24)	Y7-190004	All Phase except Use Phase							1.00						
DILM38-10-EA(RDC24)	Y7-190006	All Phase except Use Phase							1.00						
DILM38-01-EA(RDC24)	Y7-190008	All Phase except Use Phase							1.00						
DILM17-10(RDC24)	Y7-277018	All Phase except Use Phase							1.00						
DILM17-10(RDC60)	Y7-277019	All Phase except Use Phase							1.00						
DILM17-10(RDC130)	Y7-277020	All Phase except Use Phase							1.00						

Product Name	Part Number	Phases	ADPe (kg Sb eq.)	ADPf (MJ)	AP (mol H ⁺ eq.)	Epf (kg P eq.)	Epm (kg N eq.)	Ept (mol N eq.)	GWP (kg CO ₂ eq.)	GWPb (kg CO ₂ eq.)	GWPf (kg CO ₂ eq.)	GWPlu (kg CO ₂ eq.)	ODP (kg CFC-11 eq.)	POCP (kg NMVOC eq.)	WU (m ³ eq.)
DILM17-10(RDC240)	Y7-277021	All Phase except Use Phase							1.00						
DILM17-01(RDC60)	Y7-277051	All Phase except Use Phase							1.00						
DILM17-01(RDC130)	Y7-277052	All Phase except Use Phase							1.00						
DILM17-01(RDC240)	Y7-277053	All Phase except Use Phase							1.00						
DILM25-10(RDC24)	Y7-277146	All Phase except Use Phase							1.00						
DILM25-10(RDC60)	Y7-277147	All Phase except Use Phase							1.00						
DILM25-10(RDC130)	Y7-277148	All Phase except Use Phase							1.00						
DILM25-10(RDC240)	Y7-277149	All Phase except Use Phase							1.00						
DILM25-01(RDC24)	Y7-277178	All Phase except Use Phase							1.00						
DILM25-01(RDC60)	Y7-277179	All Phase except Use Phase							1.00						
DILM25-01(RDC130)	Y7-277180	All Phase except Use Phase							1.00						
DILM25-01(RDC240)	Y7-277181	All Phase except Use Phase							1.00						
DILM32-10(RDC24)	Y7-277274	All Phase except Use Phase							1.00						
DILM32-10(RDC60)	Y7-277275	All Phase except Use Phase							1.00						
DILM32-10(RDC130)	Y7-277276	All Phase except Use Phase							1.00						
DILM32-10(RDC240)	Y7-277277	All Phase except Use Phase							1.00						
DILM32-01(RDC24)	Y7-277306	All Phase except Use Phase							1.00						
DILM32-01(RDC60)	Y7-277307	All Phase except Use Phase							1.00						
DILM32-01(RDC130)	Y7-277308	All Phase except Use Phase							1.00						
DILM32-01(RDC240)	Y7-277309	All Phase except Use Phase							1.00						

Product Name	Part Number	Phases	ADPe (kg Sb eq.)	ADPf (MJ)	AP (mol H ⁺ eq.)	Epf (kg P eq.)	Epm (kg N eq.)	Ept (mol N eq.)	GWP (kg CO ₂ eq.)	GWPb (kg CO ₂ eq.)	GWPf (kg CO ₂ eq.)	GWPlu (kg CO ₂ eq.)	ODP (kg CFC-11 eq.)	POCP (kg NMVOC eq.)	WU (m ³ eq.)
DILMC32-10(RDC24)	Y7-277715	All Phase except Use Phase	1.00												
DILM17-21(RDC24)	Y7-277082	Manufacturing	1.04	1.05	1.08	1.98	1.09	1.07	1.06	1.44	1.06	2.16	1.08	1.07	1.26
		Distribution	1.09												
		Installation	1.00												
		End of Life	1.33	1.05	1.05	1.33	1.01	1.10	1.08	1.05	1.08	1.35	1.12	1.08	1.00
		Module-D	1.13	1.09	1.20	1.17	1.19	1.17	1.15	1.21	1.15	1.00	1.19	1.16	1.43
DILM32-21(RDC24)	Y7-277338	Manufacturing	1.04	1.05	1.08	1.98	1.09	1.07	1.06	1.44	1.06	2.16	1.08	1.07	1.26
		Distribution	1.09												
		Installation	1.00												
		End of Life	1.33	1.05	1.05	1.33	1.01	1.10	1.08	1.05	1.08	1.35	1.12	1.08	1.00
		Module-D	1.13	1.09	1.20	1.17	1.19	1.17	1.15	1.21	1.15	1.00	1.19	1.16	1.43
DILM17-22(RDC24)	Y7-106371	Manufacturing	1.04	1.05	1.08	1.98	1.09	1.07	1.06	1.44	1.06	2.16	1.08	1.07	1.26
		Distribution	1.09												
		Installation	1.00												
		End of Life	1.33	1.05	1.05	1.33	1.01	1.10	1.08	1.05	1.08	1.35	1.12	1.08	1.00
		Module-D	1.13	1.09	1.20	1.17	1.19	1.17	1.15	1.21	1.15	1.00	1.19	1.16	1.43
DILM25-22(RDC24)	Y7-106372	Manufacturing	1.04	1.05	1.08	1.98	1.09	1.07	1.06	1.44	1.06	2.16	1.08	1.07	1.26
		Distribution	1.09												
		Installation	1.00												
		End of Life	1.33	1.05	1.05	1.33	1.01	1.10	1.08	1.05	1.08	1.35	1.12	1.08	1.00
		Module-D	1.13	1.09	1.20	1.17	1.19	1.17	1.15	1.21	1.15	1.00	1.19	1.16	1.43
DILM25-21(RDC24)	Y7-277210	Manufacturing	1.04	1.05	1.08	1.98	1.09	1.07	1.06	1.44	1.06	2.16	1.08	1.07	1.26
		Distribution	1.09												
		Installation	1.00												
		End of Life	1.33	1.05	1.05	1.33	1.01	1.10	1.08	1.05	1.08	1.35	1.12	1.08	1.00
		Module-D	1.13	1.09	1.20	1.17	1.19	1.17	1.15	1.21	1.15	1.00	1.19	1.16	1.43
DILM32-32(RDC24)	Y7-277370	Manufacturing	1.04	1.05	1.08	1.98	1.09	1.07	1.06	1.44	1.06	2.16	1.08	1.07	1.26
		Distribution	1.09												
		Installation	1.00												
		End of Life	1.33	1.05	1.05	1.33	1.01	1.10	1.08	1.05	1.08	1.35	1.12	1.08	1.00
		Module-D	1.13	1.09	1.20	1.17	1.19	1.17	1.15	1.21	1.15	1.00	1.19	1.16	1.43
DILM32-22(RDC24)	Y7-106373	Manufacturing	1.04	1.05	1.08	1.98	1.09	1.07	1.06	1.44	1.06	2.16	1.08	1.07	1.26
		Distribution	1.09												
		Installation	1.00												
		End of Life	1.33	1.05	1.05	1.33	1.01	1.10	1.08	1.05	1.08	1.35	1.12	1.08	1.00
		Module-D	1.13	1.09	1.20	1.17	1.19	1.17	1.15	1.21	1.15	1.00	1.19	1.16	1.43
DILMS17-23(RDC24)	Y7-191710	Manufacturing	1.04	1.05	1.08	1.98	1.09	1.07	1.06	1.44	1.06	2.16	1.08	1.07	1.26
		Distribution	1.09												
		Installation	1.00												
		End of Life	1.33	1.05	1.05	1.33	1.01	1.10	1.08	1.05	1.08	1.35	1.12	1.08	1.00
		Module-D	1.13	1.09	1.20	1.17	1.19	1.17	1.15	1.21	1.15	1.00	1.19	1.16	1.43
DILMS25-23(RDC24)	Y7-191711	Manufacturing	1.04	1.05	1.08	1.98	1.09	1.07	1.06	1.44	1.06	2.16	1.08	1.07	1.26
		Distribution	1.09												
		Installation	1.00												
		End of Life	1.33	1.05	1.05	1.33	1.01	1.10	1.08	1.05	1.08	1.35	1.12	1.08	1.00
		Module-D	1.13	1.09	1.20	1.17	1.19	1.17	1.15	1.21	1.15	1.00	1.19	1.16	1.43
DILMS32-23(RDC24)	Y7-191712	Manufacturing	1.04	1.05	1.08	1.98	1.09	1.07	1.06	1.44	1.06	2.16	1.08	1.07	1.26
		Distribution	1.09												
		Installation	1.00												

Product Name	Part Number	Phases	ADPe (kg Sb eq.)	ADPf (MJ)	AP (mol H ⁺ eq.)	Epf (kg P eq.)	Epm (kg N eq.)	Ept (mol N eq.)	GWP (kg CO ₂ eq.)	GWPb (kg CO ₂ eq.)	GWPf (kg CO ₂ eq.)	GWPlu (kg CO ₂ eq.)	ODP (kg CFC-11 eq.)	POCP (kg NMVOC eq.)	WU (m ³ eq.)
		End of Life	1.33	1.05	1.05	1.33	1.01	1.10	1.08	1.05	1.08	1.35	1.12	1.08	1.00
		Module-D	1.13	1.09	1.20	1.17	1.19	1.17	1.15	1.21	1.15	1.00	1.19	1.16	1.43
DILMS17-R23(RDC24)	Y7-191724	Manufacturing	1.04	1.05	1.08	1.98	1.09	1.07	1.06	1.44	1.06	2.16	1.08	1.07	1.26
		Distribution	1.09												
		Installation	1.00												
		End of Life	1.33	1.05	1.05	1.33	1.01	1.10	1.08	1.05	1.08	1.35	1.12	1.08	1.00
		Module-D	1.13	1.09	1.20	1.17	1.19	1.17	1.15	1.21	1.15	1.00	1.19	1.16	1.43
		Manufacturing	1.04	1.05	1.08	1.98	1.09	1.07	1.06	1.44	1.06	2.16	1.08	1.07	1.26
DILMS25-R23(RDC24)	Y7-191725	Distribution	1.09												
		Installation	1.00												
		End of Life	1.33	1.05	1.05	1.33	1.01	1.10	1.08	1.05	1.08	1.35	1.12	1.08	1.00
		Module-D	1.13	1.09	1.20	1.17	1.19	1.17	1.15	1.21	1.15	1.00	1.19	1.16	1.43
		Manufacturing	1.04	1.05	1.08	1.98	1.09	1.07	1.06	1.44	1.06	2.16	1.08	1.07	1.26
		Distribution	1.09												
DILMS32-R23(RDC24)	Y7-191726	Installation	1.00												
		End of Life	1.33	1.05	1.05	1.33	1.01	1.10	1.08	1.05	1.08	1.35	1.12	1.08	1.00
		Module-D	1.13	1.09	1.20	1.17	1.19	1.17	1.15	1.21	1.15	1.00	1.19	1.16	1.43
		Manufacturing	1.04	1.05	1.08	1.98	1.09	1.07	1.06	1.44	1.06	2.16	1.08	1.07	1.26
		Distribution	1.09												
		Installation	1.00												
DILM17-32(RDC24)	Y7-277114	End of Life	1.33	1.05	1.05	1.33	1.01	1.10	1.08	1.05	1.08	1.35	1.12	1.08	1.00
		Module-D	1.13	1.09	1.20	1.17	1.19	1.17	1.15	1.21	1.15	1.00	1.19	1.16	1.43
		Manufacturing	1.04	1.05	1.08	1.98	1.09	1.07	1.06	1.44	1.06	2.16	1.08	1.07	1.26
		Distribution	1.09												
		Installation	1.00												
DILM25-32(RDC24)	Y7-277242	End of Life	1.33	1.05	1.05	1.33	1.01	1.10	1.08	1.05	1.08	1.35	1.12	1.08	1.00
		Module-D	1.13	1.09	1.20	1.17	1.19	1.17	1.15	1.21	1.15	1.00	1.19	1.16	1.43
		Manufacturing	1.04	1.05	1.08	1.98	1.09	1.07	1.06	1.44	1.06	2.16	1.08	1.07	1.26
		Distribution	1.09												
		Installation	1.00												

Multiplying Factors and Use Phase Energy Consumption for homogenous products:


Product Name	Part Number	Use Phase Extrapolation Factor (Only B6)
DILM17-01(RDC24) (Reference)	Y7-277050	1
DILMF8-10(RAC24)	Y7-104410	0.14
DILMF8-10(RAC48)	Y7-104411	
DILMF8-10(RAC120)	Y7-104412	
DILMF8-10(RAC240)	Y7-104413	
DILMF8-01(RAC24)	Y7-104414	
DILMF8-01(RAC48)	Y7-104415	
DILMF8-01(RAC120)	Y7-104416	
DILMF8-01(RAC240)	Y7-104417	
DILMF11-10(RAC24)	Y7-104418	0.29
DILMF11-10(RAC48)	Y7-104419	
DILMF11-10(RAC120)	Y7-104420	
DILMF11-10(RAC240)	Y7-104421	
DILMF11-01(RAC24)	Y7-104422	
DILMF11-01(RAC48)	Y7-104423	

Product Name	Part Number	Use Phase Extrapolation Factor (Only B6)
DILMF11-01(RAC120)	Y7-104424	
DILMF11-01(RAC240)	Y7-104425	
DILMF14-10(RAC24)	Y7-104426	
DILMF14-10(RAC48)	Y7-104427	
DILMF14-10(RAC120)	Y7-104428	
DILMF14-10(RAC240)	Y7-104429	
DILMF14-01(RAC24)	Y7-104430	0.43
DILMF14-01(RAC48)	Y7-104431	
DILMF14-01(RAC120)	Y7-104432	
DILMF14-01(RAC240)	Y7-104433	
CN13BN010TD	Y7-150408	1
CN13CN010TD	Y7-150409	2.29
DILMF17-10(RAC24)	Y7-104434	
DILMF17-10(RAC48)	Y7-104435	
DILMF17-10(RAC120)	Y7-104436	
DILMF17-10(RAC240)	Y7-104437	
DILMF17-01(RAC24)	Y7-104438	
DILMF17-01(RAC48)	Y7-104439	
DILMF17-01(RAC120)	Y7-104440	
DILMF17-01(RAC240)	Y7-104441	
DILM17-10-EA(RDC24)	Y7-189910	
DILM17-01-EA(RDC24)	Y7-189912	
DILM17-10(RDC24)	Y7-277018	
DILM17-10(RDC60)	Y7-277019	1
DILM17-10(RDC130)	Y7-277020	
DILM17-10(RDC240)	Y7-277021	
DILM17-01(RDC60)	Y7-277051	
DILM17-01(RDC130)	Y7-277052	
DILM17-01(RDC240)	Y7-277053	
DILM17-21(RDC24)	Y7-277082	
DILM17-22(RDC24)	Y7-106371	
DILMS17-23(RDC24)	Y7-191710	
DILMS17-R23(RDC24)	Y7-191724	
DILM17-32(RDC24)	Y7-277114	
DILMF25-10(RAC24)	Y7-104442	
DILMF25-10(RAC48)	Y7-104443	
DILMF25-10(RAC120)	Y7-104444	
DILMF25-10(RAC240)	Y7-104445	
DILMF25-01(RAC24)	Y7-104446	
DILMF25-01(RAC48)	Y7-104447	2
DILMF25-01(RAC120)	Y7-104448	
DILMF25-01(RAC240)	Y7-104449	
DILM25-01(RDC12)	Y7-104811	
DILM25-10(RDC12)	Y7-104812	
DILM25-10-EA(RDC24)	Y7-189914	

Product Name	Part Number	Use Phase Extrapolation Factor (Only B6)	
DILM25-01-EA(RDC24)	Y7-189916		
DILM25-10(RDC24)	Y7-277146		
DILM25-10(RDC60)	Y7-277147		
DILM25-10(RDC130)	Y7-277148		
DILM25-10(RDC240)	Y7-277149		
DILM25-01(RDC24)	Y7-277178		
DILM25-01(RDC60)	Y7-277179		
DILM25-01(RDC130)	Y7-277180		
DILM25-01(RDC240)	Y7-277181		
DILM25-22(RDC24)	Y7-106372		
DILM25-21(RDC24)	Y7-277210		
DILMS25-23(RDC24)	Y7-191711		
DILMS25-R23(RDC24)	Y7-191725		
DILM25-32(RDC24)	Y7-277242		
DILMF32-10(RAC24)	Y7-104450		3.14
DILMF32-10(RAC48)	Y7-104451		
DILMF32-10(RAC120)	Y7-104452		
DILMF32-10(RAC240)	Y7-104453		
DILMF32-01(RAC24)	Y7-104454		
DILMF32-01(RAC48)	Y7-104455		
DILMF32-01(RAC120)	Y7-104456		
DILMF32-01(RAC240)	Y7-104457		
DILM32-10-EA(RDC24)	Y7-189918		
DILM32-01-EA(RDC24)	Y7-190004		
DILM32-10(RDC24)	Y7-277274		
DILM32-10(RDC60)	Y7-277275		
DILM32-10(RDC130)	Y7-277276		
DILM32-10(RDC240)	Y7-277277		
DILM32-01(RDC24)	Y7-277306		
DILM32-01(RDC60)	Y7-277307		
DILM32-01(RDC130)	Y7-277308		
DILM32-01(RDC240)	Y7-277309		
DILMC32-10(RDC24)	Y7-277715		
DILM32-21(RDC24)	Y7-277338		
DILM32-32(RDC24)	Y7-277370		
DILM32-22(RDC24)	Y7-106373		
DILMS32-23(RDC24)	Y7-191712		
DILMS32-R23(RDC24)	Y7-191726		
DILM38-10(RDC24)	Y7-112442	4.43	
DILM38-10(RDC60)	Y7-112443		
DILM38-10(RDC130)	Y7-112444		
DILM38-10(RDC240)	Y7-112445		
DILM38-01(RDC24)	Y7-112470		
DILM38-01(RDC60)	Y7-112471		
DILM38-01(RDC130)	Y7-112472		

Product Name	Part Number	Use Phase Extrapolation Factor (Only B6)
DILM38-01(RDC240)	Y7-112473	
DILM38-10-EA(RDC24)	Y7-190006	
DILM38-01-EA(RDC24)	Y7-190008	

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<i>Verifier accreditation Number</i>	VH53	Supplemented by	PSR-0005-ed3-EN-2023 06 06
<i>Date of issue</i>	05-2024	<i>Information and reference documents</i>	www.pep-ecopassport.org
		<i>Validity period</i>	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 »			