

# Product Environmental Profile

**iDT40N 6000A/10kA 16A/C 1PN**





**Representative product**

**Description of the product**

Protect during 20 years the installation against overloads and short-circuits in circuit with assigned voltage 230V and rated current 16A. This protection is ensured in accordance with the following parameters:

- Number of poles 1P+N
- Rated breaking capacity Icn 6000A
- Tripping curve C



**Reference product mass**

179.5 g including the product, its packaging and additional elements and accessories

	Plastics	28.6%
	Metals	25.5%
	Others	45.8%



The iDT40N 6000A/10kA 16A/C 1PN presents the following relevant environmental aspects

Manufacturing

Distribution

Installation

Use

Recyclability potential: **94%** (version V1, 20 Sep. 2008 presented to the French Agency for

Use scenario

No special components needed

Load rate: 50% of In

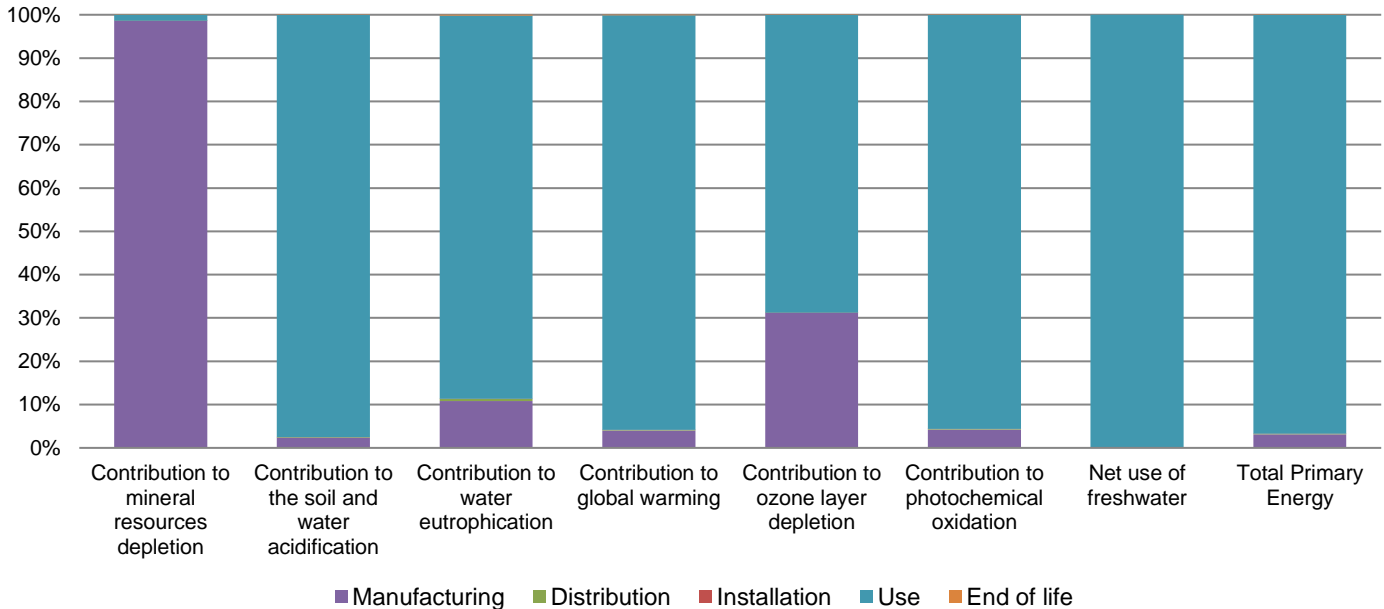
Use time rate: 30% of RLT

Europe

Protect the installation against overloads and short circuits and protect people and premises at risk of fire or explosion against insulation defects

	Manufacturing	Installation	Use	End of life
Energy model used: France		Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27

	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
	kg Sb eq	1.20E-04	1.19E-04	0*	0*	1.63E-06	0*
	kg SO <sub>2</sub> eq	8.04E-02	1.86E-03	1.06E-04	0*	7.84E-02	3.44E-05
	kg PO <sub>4</sub> <sup>3-</sup> eq	5.35E-03	5.80E-04	2.44E-05	0*	4.73E-03	9.74E-06
	kg CO <sub>2</sub> eq	1.96E+01	7.88E-01	2.32E-02	0*	1.88E+01	1.88E-02
Contribution to ozone layer depletion	kg CFC11 eq	1.78E-06	5.57E-07	0*	0*	1.22E-06	7.80E-10
Contribution to photochemical oxidation	kg C <sub>2</sub> H <sub>4</sub> eq	4.51E-03	1.91E-04	7.55E-06	0*	4.31E-03	3.58E-06
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	6.82E+01	0*	0*	0*	6.82E+01	0*
Total Primary Energy	MJ	3.88E+02	1.23E+01	3.27E-01	0*	3.75E+02	1.67E-01




Optional indicators		iDT40N 6000A/10kA 16A/C 1PN - A9P24616						
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	
Contribution to fossil resources depletion	MJ	2.21E+02	6.82E+00	3.25E-01	0*	2.13E+02	1.52E-01	
Contribution to air pollution	m <sup>3</sup>	9.35E+02	1.24E+02	9.85E-01	0*	8.09E+02	1.21E+00	
Contribution to water pollution	m <sup>3</sup>	1.04E+03	2.59E+02	3.81E+00	0*	7.76E+02	1.47E+00	
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	
Use of secondary material	kg	9.51E-03	9.51E-03	0*	0*	0*	0*	
Total use of renewable primary energy resources	MJ	4.93E+01	1.52E+00	0*	0*	4.77E+01	0*	
Total use of non-renewable primary energy resources	MJ	3.39E+02	1.08E+01	3.27E-01	0*	3.28E+02	1.67E-01	
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	4.79E+01	1.82E-01	0*	0*	4.77E+01	0*	
Use of renewable primary energy resources used as raw material	MJ	1.34E+00	1.34E+00	0*	0*	0*	0*	
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	3.38E+02	9.33E+00	3.27E-01	0*	3.28E+02	1.67E-01	
Use of non renewable primary energy resources used as raw material	MJ	1.43E+00	1.43E+00	0*	0*	0*	0*	
Use of non renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*	
Use of renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*	
Waste categories	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	
Hazardous waste disposed	kg	4.53E+00	4.35E+00	0*	0*	9.80E-03	1.72E-01	
Non hazardous waste disposed	kg	7.05E+01	3.85E-01	0*	0*	7.01E+01	0*	
Radioactive waste disposed	kg	4.71E-02	2.49E-04	0*	0*	4.68E-02	0*	
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life	
Materials for recycling	kg	1.38E-01	1.75E-02	0*	6.47E-02	0*	5.56E-02	
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	
Materials for energy recovery	kg	3.07E-03	3.90E-04	0*	0*	0*	2.68E-03	
Exported Energy	MJ	0.00E+00	0*	0*	0*	0*	0*	

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

Life cycle assessment performed with EIME version EIME v5.6.0.1, database version 2016-11 in compliance with ISO14044.

The use phase is the life cycle phase which has the greatest impact on the majority of environmental indicators (based on compulsory indicators).

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.

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		Validity period	5 years
Independent verification of the declaration and data, in compliance with ISO 14025 : 2010			
Internal	External	X	
The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN)			
PEP are compliant with XP C08-100-1 :2014			
The elements of the present PEP cannot be compared with elements from another program.			
Document in compliance with ISO 14025 : 2010 « Environmental labels and declarations. Type III environmental declarations »			
			

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