SIEMENS

EPD - Type II According to ISO 14021



Environmental Product Declaration

Product		Type of equipment / 5SY5104-7 Product No.		Circuit breaker curr. sens DC 220V AC 230/400V 10 kA, 1-pole, C, 4A			
			5SY5116-7		Circuit breake DC 220V AC	r curr. sens 230/400V 10 kA, 1-pole, C, 16A	
		5SY5132-7			Circuit breaker curr. sens DC 220V AC 230/400V 10 kA, 1-pole, C, 32A		
		Product line	5SY5* Miniature Circuit E	Breakers			
Technical data		5SY5104-7		5SY5116-7		5SY5132-7	
Resistance	[mΩ]]	81.0		5.9	2.4	
Nominal current	[A]]	4		16	32	
Power loss	[W]]	1.3		1.5	2.5	
Max. installed power	[W]]	920		3680	7360	
Energy effiency	[%]]	99,86		99,96	99,97	
Process control		Siemens AG					
		Siemensstr. 10					
		93055 Regensburg/ Ge	rmanv				
				since	by		
		Management System		since	by		
		ISO 9001 (Quality)		15.12.1993	VDE		
		ISO 14001 (Environment)		08.09.1999	VDE		
		OHSAS 18001 (OH&S)	28.06.2011	VDE		
Environmentally compat product design	ible	the environmental impa	ct of its products with planning phases by c	respect to production, pro complying with Siemens E	ocurement, sales, u	sesses, avoids and minimizes se, services and disposal during er SN 36350) "Specifications on	
Product use		Typical energy consumption		variant *) see below			
		Fire load		0.8MJ			
Packaging	Packaging 21-PAP Fiber board			One piece packaging		12.5g	
Materials		Total weight of device				variant *) see below	
			The total weigh	t of a device may deviate from th	e total of the weights of	all individual components due to rounding.	
Plastics		PA6; GF 20%				1.8g	
		PBT; GF 10%				1.1g	
		PBT; GF 10% PBT; GF 30%				1.1g 1.3g	
						1.1g 1.3g 0.9g	

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Metals	Al alloy		variant
	Bimetal		variant
	Cu		variant
	Cu; tin plated		variant
	Cu; silver plated		0.7g
	Cu; lacquered		variant
	Magnet		2.7g
	Steel		variant
	Steel; copper plated	Arcing chamber	31.4g
	Steel; galvanized		16.6g
	Steel; nickel plated		0.5g
*Variant parts list [g]	5SY5104-7	5SY5116-7	5SY5132-7
Total weight of device	151.5	145.1	152.3
Al alloy	1.5		
Bimetal	1.1	1.2	1.3
Cu	3.9	2.2	2.8
Cu; tin plated	1.6	3.4	3.4
Cu; lacquered	6.6	2.6	8.4
Steel	17.6	16.5	17.2
Typical energy consumption			
30% nominal current [A]	1.2	4.8	9.6
Power loss at [W] 30% nominal current	0.1	0.1	0.2
Energy consumption [kWh] for 30% of the time in 20 years	6.13	7.14	11.63
Disposal	time over a period of 20 years. The product has a power loss of 0,1W at a current - i.e. a maximum installed power o	% of the nominal current flows through the a current of 4,8A. It consumes 7,14W over f 3680W - an energy efficiency of 99,96% r unsorted municipal waste. The special treat	a period of 20 years. At nominal results.
Comments			

EU-directive 2011/65/EU (RoHS)

The device does not contain substances in concentrations and applications banned under the EU RoHS Directive.

Regulation (EC) No. 1907/2006 (REACH)

To the best of our knowledge and according to the information of our suppliers the above mentioned device and its packaging contain no substances of the candidate list according to Article 59 (1, 10) of the regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) in concentrations above 0.1 % w/w.

(Status according to the creation date of this document.)

Further notes and comments:

For all products listed above the concentration of each halogen (fluorine, chlorine, bromine, iodine) is less than or equal to 0.1 %. Thus the products are considered as halogen-free according to DIN VDE V 0604-2-100.

The details in this EPD refer to unipolar equipment. For multi-pole equipment a good approximation is achieved by multiplication by the number of poles.

The values are rounded to integer numbers. Materials with a mass under 0.5 g are not considered, if they do not have a significant environmental impact.

Legal Disclaimer: This declaration is for information purpose only.

This Environmental Product Declaration does not constitute a guarantee of the composition of a product, neither does it guarantee that the product will retain a particular composition for a particular period.

Siemens AG therefore does not assume liability for any error or for any consequences which may arise from the use of this information to the maximum extent under the law.

Please contact your local Siemens branch office to get further information on environmental aspects and disposal.