

## Data sheet

3UF7103-1BA00-0

product brand name	SIMOCODE	
product designation	Current measuring module	
<b>General technical data</b>		
size of the circuit-breaker	S6	
product function		
• current measurement	Yes	
• voltage measurement	No	
• active power measurement	No	
• energy measurement	No	
• frequency measurement	No	
product component		
• input for thermistor connection	No	
consumed active power	0.2 W	
insulation voltage		
• with degree of pollution 3 at AC rated value	690 V	
• for wires of main circuit according to IEC 60947-1 rated value	8 kV	
surge voltage resistance rated value	8 000 V	
shock resistance according to IEC 60068-2-27	15g / 11 ms	
vibration resistance	1-6 Hz / 15 mm; 6-500 Hz / 2 g	
reference code according to IEC 81346-2	F	
Substance Prohibition (Date)	07/01/2006	
SVHC substance name	Lead monoxide (lead oxide) - 1317-36-8	
Net Weight	990 g	
<b>Electromagnetic compatibility</b>		
EMC emitted interference according to IEC 60947-1	class A	
EMC immunity according to IEC 60947-1	corresponds to degree of severity 3	
conducted interference		
• due to burst according to IEC 61000-4-4	2 kV	
• due to conductor-earth surge according to IEC 61000-4-5	2 kV	
• due to conductor-conductor surge according to IEC 61000-4-5	1 kV	
field-based interference according to IEC 61000-4-3	10 V/m	
<b>Inputs/ Outputs</b>		
number of outputs as contact-affected switching element	0	
<b>Protective and monitoring functions</b>		
product function		
• power factor monitoring	No	
• ground-fault monitoring	No	
• voltage detection	No	
trip class	CLASS 5E	
product function		
• current detection	Yes	
• overload protection	Yes	
<b>Installation/ mounting/ dimensions</b>		
mounting position	any	
fastening method	direct mounting / stand-alone installation	
height	119 mm	
width	120 mm	
depth	145 mm	

<b>required spacing</b>		
• top	30 mm	
• bottom	30 mm	
• left	0 mm	
• right	0 mm	
<b>Connections/ Terminals</b>		
<b>type of electrical connection</b>		
• for main current circuit	busbar connection	
<b>type of connectable conductor cross-sections at the measurement inputs for current</b>		
• solid with core end processing	16 mm <sup>2</sup> ... 95 mm <sup>2</sup>	
• stranded with core end processing	25 mm <sup>2</sup> ... 120 mm <sup>2</sup>	
• for AWG cables	6 kcmil ... 300 kcmil	
<b>design of the thread of the connection screw at the measurement inputs for current</b>	M8 x 25	
<b>Ambient conditions</b>		
<b>installation altitude at height above sea level</b>		
• 1 maximum	2 000 m	
• 2 maximum	3 000 m; max. +50 °C (no protective separation)	
• 3 maximum	4 000 m; max. +40 °C (no protective separation)	
<b>ambient temperature</b>		
• during operation	-25 ... +60 °C	
• during storage	-40 ... +80 °C	
• during transport	-40 ... +80 °C	
<b>environmental category</b>		
• during operation according to IEC 60721	3K6 (no formation of ice, no condensation, relative humidity 10 ... 95%), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6	
• during storage according to IEC 60721	1K6 (no condensation, relative humidity 10 ... 95%), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4	
• during transport according to IEC 60721	2K2, 2C1, 2S1, 2M2	
relative humidity during operation	5 ... 95 %	
<b>Short-circuit protection</b>		
<b>product function short circuit protection</b>	No	
IEC 61508		
Safety Integrity Level (SIL) according to IEC 61508	1	
<b>ATEX</b>		
<b>certificate of suitability</b>		
• according to ATEX directive 2014/34/EU	BVS 06 ATEX F001	
• according to UKCA	ITS21UKEX0464	
explosion device group and category according to ATEX directive 2014/34/EU	II (2) G, II (2) D, I (M2)	
<b>Galvanic isolation</b>		
<b>(electrically) protective separation according to IEC 60947-1</b>	All circuits with protective separation (double creepage paths and clearances), the information in the "Protective Separation" test report, No. A0258, must be observed (link see further information)	
<b>Main circuit</b>		
<b>number of poles for main current circuit</b>	3	
<b>adjustable current response value current of the current-dependent overload release</b>	20 ... 200 A	
<b>operating voltage</b>		
• at AC		
— at 50 Hz rated value	110 ... 690 V	
— at 60 Hz rated value	110 ... 690 V	
<b>operating frequency rated value</b>	50 ... 60 Hz	
<b>Control circuit/ Control</b>		
<b>type of voltage</b>	AC	
<b>Approvals Certificates</b>		
<b>Environment</b>	<b>General Product Approval</b>	



[Environmental Confirmations](#)



General Product Approval	EMV	For use in hazardous locations
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For use in hazardous locations	Test Certificates	Maritime application
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[Miscellaneous](#)

[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



Maritime application	other	Industrial Communication
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[Confirmation](#)



#### Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

Information- and Downloadcenter (Catalogs, Brochures,...)

<https://www.siemens.com/ic10>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3UF7103-1BA00-0>

Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UF7103-1BA00-0>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3UF7103-1BA00-0>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3UF7103-1BA00-0&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF7103-1BA00-0&lang=en)

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