



















Current measuring module, Set current 10...100 A Overall width 55 mm, straight-through transformer

product brand name	SIMOCODE
product designation	Current measuring module
<b>General technical data</b>	
size of the circuit-breaker	S2, S3
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	6 kV
surge voltage resistance rated value	6 000 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 Prohibitance (Date)	05/28/2009
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8
Net Weight	313 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
<b>trip class</b>	CLASS 5E
<b>product function</b>	
• current detection	Yes
• overload protection	Yes
<b>Installation/ mounting/ dimensions</b>	
<b>mounting position</b>	any
<b>fastening method</b>	screw and snap-on mounting
<b>height</b>	94 mm
<b>width</b>	55 mm
<b>depth</b>	72 mm
<b>required spacing</b>	
• top	30 mm
• bottom	30 mm
• left	0 mm
• right	0 mm
<b>diameter of inlet opening</b>	14 mm
<b>diameter of inlet opening for current measurement</b>	14 mm
<b>Connections/ Terminals</b>	
<b>type of electrical connection</b>	
• for main current circuit	straight-through transformers
<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>	10 ... 100 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

Control circuit/ Control					
type of voltage			AC		
Approvals Certificates					
General Product Approval				EMV	
					
EMV		For use in hazardous locations			Test Certificates
<a href="#">KC</a>				<a href="#">Miscellaneous</a>	<a href="#">Special Test Certificate</a>
Test Certificates		Maritime application			other
<a href="#">Type Test Certificates/Test Report</a>					
other		Environment		Industrial Communication	
<a href="#">Confirmation</a>		<a href="#">Environmental Confirmations</a>			
Further information					
<p>Information on the packaging <a href="https://support.industry.siemens.com/cs/ww/en/view/109813875">https://support.industry.siemens.com/cs/ww/en/view/109813875</a></p> <p>Information for data generation and storage <a href="https://support.industry.siemens.com/cs/ww/en/view/109995012">https://support.industry.siemens.com/cs/ww/en/view/109995012</a></p> <p>Information- and Downloadcenter (Catalogs, Brochures,...) <a href="https://www.siemens.com/ic10">https://www.siemens.com/ic10</a></p> <p>Industry Mall (Online ordering system) <a href="https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3UF7102-1AA00-0">https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3UF7102-1AA00-0</a></p> <p>Cax online generator <a href="https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&amp;mlfb=3UF7102-1AA00-0">https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&amp;mlfb=3UF7102-1AA00-0</a></p> <p>Service&amp;Support (Manuals, Certificates, Characteristics, FAQs,...) <a href="https://support.industry.siemens.com/cs/ww/en/ps/3UF7102-1AA00-0">https://support.industry.siemens.com/cs/ww/en/ps/3UF7102-1AA00-0</a></p> <p>Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF7102-1AA00-0&amp;lang=en">https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF7102-1AA00-0&amp;lang=en</a></p>					

