



Current measuring module, Set current 0.3...3 A Overall width 45 mm, straight-through transformer

product brand name	SIRIUS
product designation	Current measuring module
<b>General technical data</b>	
product function	<ul style="list-style-type: none"> <li>• current measurement Yes</li> <li>• voltage measurement No</li> <li>• active power measurement No</li> <li>• energy measurement No</li> <li>• frequency measurement No</li> </ul>
product component	<ul style="list-style-type: none"> <li>• input for thermistor connection No</li> </ul>
consumed active power	0.2 W
insulation voltage	<ul style="list-style-type: none"> <li>• with degree of pollution 3 at AC rated value 690 V</li> <li>• for wires of main circuit according to IEC 60947-1 rated value 6 kV</li> </ul>
surge voltage resistance rated value	6 000 V
protection class IP	IP20
shock resistance according to IEC 60068-2-27	15g / 11 ms
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
<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	<ul style="list-style-type: none"> <li>• due to burst according to IEC 61000-4-4 2 kV</li> <li>• due to conductor-earth surge according to IEC 61000-4-5 2 kV</li> <li>• due to conductor-conductor surge according to IEC 61000-4-5 1 kV</li> </ul>
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	<ul style="list-style-type: none"> <li>• power factor monitoring No</li> <li>• ground-fault monitoring No</li> <li>• voltage detection No</li> </ul>
trip class	CLASS 5E
product function	

• current detection	Yes
• overload protection	Yes
<b>Installation/ mounting/ dimensions</b>	
mounting position	any
fastening method	screw and snap-on mounting
height	84 mm
width	45 mm
depth	45 mm
required spacing	
• top	30 mm
• bottom	30 mm
• left	0 mm
• right	0 mm
diameter of inlet opening	7.5 mm
diameter of inlet opening for current measurement	7.5 mm
<b>Ambient conditions</b>	
installation altitude at height above sea level	
• 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)
ambient temperature	
• during operation	-25 ... +60 °C
• during storage	-40 ... +80 °C
• during transport	-40 ... +80 °C
environmental category	
• 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>	
product function short circuit protection	No
<b>ATEX</b>	
certificate of suitability	
• 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>	
(electrically) protective separation according to IEC 60947-1	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>	
number of poles for main current circuit	3
adjustable current response value current of the current-dependent overload release	0.3 ... 3 A
operating voltage	
• at AC	
— at 50 Hz rated value	110 ... 690 V
— at 60 Hz rated value	110 ... 690 V
operating frequency rated value	50 ... 60 Hz
<b>Control circuit/ Control</b>	
type of voltage	AC
<b>Approvals Certificates</b>	
General Product Approval	



[Confirmation](#)





KC



IECEx



ATEX

[other ex-certificates](#)

Test Certificates

Marine / Shipping

[Special Test Certificate](#)[Type Test Certificates/Test Report](#)

ABS



DNV



LRS



RMRS

other

Environment

Industrial Communication

Confirmation

[Environmental Confirmations](#)

Profibus

**Further information**

Information on the packaging

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

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=3UF7100-1AA00-0>

Cax online generator

<http://support.automation.siemens.com/WW/CAxorder/default.aspx?lang=en&mlfb=3UF7100-1AA00-0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3UF7100-1AA00-0>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3UF7100-1AA00-0&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF7100-1AA00-0&lang=en)

Test report No. A0258, protective separation

<https://support.industry.siemens.com/cs/ww/en/view/109748152>



