

Current measuring module, Set current 63...630 A Overall width 145 mm, busbar connection



product brand name	SIRIUS
product designation	Current measuring module
<b>General technical data</b>	
size of the circuit-breaker	S10, S12
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
Weight	1.795 kg
<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

<b>product function</b>	
• current detection	Yes
• overload protection	Yes
<b>Installation/ mounting/ dimensions</b>	
<b>mounting position</b>	any
<b>fastening method</b>	direct mounting / stand-alone installation
<b>height</b>	147 mm
<b>width</b>	145 mm
<b>depth</b>	148 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	50 mm <sup>2</sup> ... 240 mm <sup>2</sup>
• stranded with core end processing	70 mm <sup>2</sup> ... 240 mm <sup>2</sup>
• for AWG cables	1/0 kcmil ... 500 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
<b>relative humidity during operation</b>	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>	63 ... 630 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

[Confirmation](#)**EMV****For use in hazardous locations****Test Certificates****KC**

IECEx



ATEX

[Miscellaneous](#)[Special Test Certificate](#)**Test Certificates****Marine / Shipping****other**[Type Test Certificates/Test Report](#)[Confirmation](#)**Environment****Industrial Communication**[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=3UF7104-1BA00-0>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UF7104-1BA00-0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3UF7104-1BA00-0>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3UF7104-1BA00-0&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF7104-1BA00-0&lang=en)

Test report No. A0258, protective separation

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



