

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



product brand name	SIRIUS
product designation	Current measuring module
General technical data	
product function	
<ul style="list-style-type: none"> • current measurement • voltage measurement • active power measurement • energy measurement • frequency measurement 	<ul style="list-style-type: none"> Yes No No No No
product component	
<ul style="list-style-type: none"> • input for thermistor connection 	No
consumed active power	0.2 W
insulation voltage	
<ul style="list-style-type: none"> • with degree of pollution 3 at AC rated value • for wires of main circuit according to IEC 60947-1 rated value 	<ul style="list-style-type: none"> 690 V 8 kV
surge voltage resistance rated value	8 000 V
protection class IP	IP00
shock resistance according to IEC 60068-2-27	15g / 11 ms
reference code according to IEC 81346-2	F
Substance Prohibition (Date)	07/01/2006
SVHC substance name	Bleimonoxid (Bleioxid) - 1317-36-8
certificate of suitability	
<ul style="list-style-type: none"> • according to ATEX directive 2014/34/EU • according to UKCA 	<ul style="list-style-type: none"> BVS 06 ATEX F001 ITS21UKEX0464
explosion device group and category according to ATEX directive 2014/34/EU	II (2) G, II (2) D, I (M2)
Electromagnetic compatibility	
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"> • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 	<ul style="list-style-type: none"> 2 kV 2 kV 1 kV
field-based interference according to IEC 61000-4-3	10 V/m
Inputs/ Outputs	
number of outputs as contact-affected switching element	0
Protective and monitoring functions	
product function	
<ul style="list-style-type: none"> • power factor monitoring 	No

<ul style="list-style-type: none"> ● ground-fault monitoring ● voltage detection 	No	
trip class	CLASS 5E	
product function		
<ul style="list-style-type: none"> ● current detection ● overload protection 	Yes	
	Yes	
Installation/ mounting/ dimensions		
mounting position	any	
fastening method	direct mounting / stand-alone installation	
height	147 mm	
width	145 mm	
depth	148 mm	
required spacing		
<ul style="list-style-type: none"> ● top ● bottom ● left ● right 	30 mm	
	30 mm	
	0 mm	
	0 mm	
Connections/ Terminals		
type of connectable conductor cross-sections at the measurement inputs for current		
<ul style="list-style-type: none"> ● solid with core end processing ● stranded with core end processing ● for AWG cables 	50 mm ² ... 240 mm ²	
	70 mm ² ... 240 mm ²	
	1/0 kcmil ... 500 kcmil	
design of the thread of the connection screw at the measurement inputs for current	M8 x 25	
Ambient conditions		
installation altitude at height above sea level		
<ul style="list-style-type: none"> ● 1 maximum ● 2 maximum ● 3 maximum 	2 000 m	
	3 000 m; max. +50 °C (no protective separation)	
	4 000 m; max. +40 °C (no protective separation)	
ambient temperature		
<ul style="list-style-type: none"> ● during operation ● during storage ● during transport 	-25 ... +60 °C	
	-40 ... +80 °C	
	-40 ... +80 °C	
environmental category		
<ul style="list-style-type: none"> ● during operation according to IEC 60721 ● during storage according to IEC 60721 ● during transport 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	
	1K6 (no condensation, relative humidity 10 ... 95%), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4	
	2K2, 2C1, 2S1, 2M2	
relative humidity during operation	5 ... 95 %	
Short-circuit protection		
product function short circuit protection	No	
Galvanic isolation		
(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)	
Main circuit		
number of poles for main current circuit	3	
adjustable current response value current of the current-dependent overload release	63 ... 630 A	
operating voltage		
<ul style="list-style-type: none"> ● 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	
Control circuit/ Control		
type of voltage	AC	
Approvals Certificates		
General Product Approval	EMC	For use in hazardous locations



[Confirmation](#)



For use in hazardous locations

Declaration of Conformity

Test Certificates



[Explosion Protection Certificate](#)



EG-Konf.

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

Marine / Shipping

other



LRS



RMRS



DNV-GL

[Confirmation](#)



Profibus

Further information

Siemens has decided to exit the Russian market (see here).

<https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business>

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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&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

Test report No. A0258, protective separation

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



