



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
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 6 kV
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	Blei - 7439-92-1 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 • 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	screw and snap-on mounting	
height	84 mm	
width	45 mm	
depth	45 mm	
required spacing		
<ul style="list-style-type: none"> • top • bottom • left • right 	30 mm	
	30 mm	
	0 mm	
	0 mm	
diameter of inlet opening	7.5 mm	
diameter of inlet opening for current measurement	7.5 mm	
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	0.3 ... 3 A	
operating voltage		
<ul style="list-style-type: none"> • at AC <ul style="list-style-type: none"> — at 50 Hz rated value — at 60 Hz rated value 	110 ... 690 V	
	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
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[Explosion Protection Certificate](#)



[Special Test Certificate](#)

Test Certificates	Marine / Shipping	other
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[Type Test Certificates/Test Report](#)



[Confirmation](#)

other



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=3UF7100-1AA00-0>
Cax online generator
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UF7100-1AA00-0>
Service&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
Test report No. A0258, protective separation
<https://support.industry.siemens.com/cs/ww/en/view/109748152>



