



Current measuring module, Set current 10...100 A Overall width 55 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 • power measurement • frequency measurement 	<p>Yes</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p>
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 	<p>690 V</p> <p>6 kV</p>
surge voltage resistance rated value	6 000 V
protection class IP	IP20
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
certificate of suitability	
<ul style="list-style-type: none"> • according to ATEX directive 2014/34/EU • according to UKCA 	<p>BVS 06 ATEX F001</p> <p>ITS21UKEX0464</p>
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 	<p>2 kV</p> <p>2 kV</p> <p>1 kV</p>
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	No
product function	No
<ul style="list-style-type: none"> • current detection • overload protection 	CLASS 5E
<ul style="list-style-type: none"> • top • bottom • left • right 	Yes
<ul style="list-style-type: none"> • top • bottom • left • right 	Yes
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting
height	94 mm
width	55 mm
depth	72 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	14 mm
diameter of inlet opening for current measurement	14 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	10 ... 100 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
Certificates/ approvals	
General Product Approval	EMC



[Confirmation](#)



For use in hazardous locations			Declaration of Conformity		Test Certificates
 ATEX	 IECEX	 ATEX		 EG-Konf.	Special Test Certificate
Test Certificates	Marine / Shipping			other	
Type Test Certificates/Test Report	 ABS	 LRS	 RMRS	 DNV-GL	Confirmation
other					
 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=3UF7102-1AA00-0>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UF7102-1AA00-0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3UF7102-1AA00-0>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF7102-1AA00-0&lang=en

Test report No. A0258, protective separation

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

