

Current measuring module, Set current 20...200 A overall width 120 mm, straight-through transformer



product brand name

SIRIUS

product designation

Current measuring module

General technical data

product function

- current measurement
- voltage measurement
- active power measurement
- power measurement
- frequency measurement

Yes

No

No

No

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
- for wires of main circuit according to IEC 60947-1 rated value

690 V

8 kV

surge voltage resistance rated value

8 000 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)

07/01/2006

certificate of suitability

- according to ATEX directive 2014/34/EU
- according to UKCA

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

- 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

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	No
product function	No
<ul style="list-style-type: none"> • current detection • overload protection 	CLASS 5E
Yes	
Yes	
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting
height	95 mm
width	120 mm
depth	145 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	25 mm
diameter of inlet opening for current measurement	25 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	20 ... 200 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
Certificates/ approvals	
General Product Approval	EMC




[Confirmation](#)



For use in hazardous locations			Declaration of Conformity	Test Certificates	
 ATEX	 IECEX	 ATEX	 EG-Konf.		Type Test Certificates/Test Report

Test Certificates	Marine / Shipping				other
Special Test Certificate					Confirmation

other


Further information

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=3UF7103-1AA00-0>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UF7103-1AA00-0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3UF7103-1AA00-0>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF7103-1AA00-0&lang=en

Test report No. A0258, protective separation

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

