SIEMENS

Data sheet   **3UF7103-1BA00-0**

Current measuring module, Set current 20...200 A overall width 120 mm, busbar connection

product brand name	SIRIUS
product designation	Current measuring module
General technical data	
size of the circuit-breaker	S6
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 Prohibitance (Date)	07/01/2006
SVHC substance name	Lead monoxide (lead oxide) - 1317-36-8
Weight	1.006 kg
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	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
Inputs/ Outputs	
number of outputs as contact-affected switching element	0
Protective and monitoring functions	
product function	
● power factor monitoring	No
● ground-fault monitoring	No
● voltage detection	No
trip class	CLASS 5E

product function	
● current detection	Yes
● overload protection	Yes

Installation/ mounting/ dimensions

mounting position	any
fastening method	direct mounting / stand-alone installation
height	119 mm
width	120 mm
depth	145 mm
required spacing	
● top	30 mm
● bottom	30 mm
● left	0 mm
● right	0 mm

Connections/ Terminals

type of electrical connection	
● for main current circuit	busbar connection
type of connectable conductor cross-sections at the measurement inputs for current	
● solid with core end processing	16 mm² ... 95 mm²
● stranded with core end processing	25 mm² ... 120 mm²
● for AWG cables	6 kcmil ... 300 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	
● 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)
ambient temperature	
● during operation	-25 ... +60 °C
● during storage	-40 ... +80 °C
● during transport	-40 ... +80 °C
environmental category	
● 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
relative humidity during operation	5 ... 95 %

Short-circuit protection

product function short circuit protection	No

ATEX

certificate of suitability	
● 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)

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	
● 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

CCC	CE EG-Konf.	UK CA	UL	EAC	EMV RCM

EMV	For use in hazardous locations				Test Certificates
[KC](#)	ATEX	IECEx	ATEX	[Miscellaneous](#)	[Type Test Certific-ates/Test Report](#)

Test Certificates	Marine / Shipping				other
[Special Test Certific-ate](#)	ABS	DNV	Lloyd's Register LRS	RMRS	[Confirmation](#)

Environment	Industrial Communication
EPD [Environmental Con-firmations](#)	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=3UF7103-1BA00-0

Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UF7103-1BA00-0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3UF7103-1BA00-0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF7103-1BA00-0&lang=en

4/19/2025

SIEMENS
SIMOCODE 3UF71
20–200A

L1 L2 L3
T1 T2 T3

120
104
37 37
10
118.5
95
82
76
6.5
8.5
17
Ø9
Ø7.2

145
140
79.1
39
47.5
51.9
3

L1 L2 L3
-B

Logic

Sys

SIMOCODE PRO

T1 T2 T3

4/19/2025

4/19/2025