SIEMENS

3UF7103-1AA00-0 **Data sheet**



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	Yes
 voltage measurement 	No
 active power measurement 	No
 power 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
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 	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)
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	screw and snap-on mounting
height	95 mm
width	120 mm
depth	145 mm
required spacing	
 top 	30 mm
bottom	30 mm
• left	0 mm
● right	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	
• 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
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
Certificates/ approvals	
General Product Approval	EMC



Confirmation



















Type Test Certificates/Test Report

Test Certificates

Marine / Shipping

other

Special Test Certificate









Confirmation

other



Profibus

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,...)

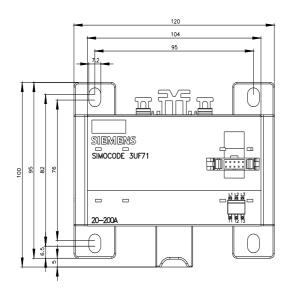
https://support.industry.siemens.com/cs/ww/en/ps/3UF7103-1AA00-0

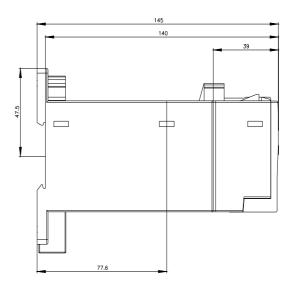
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

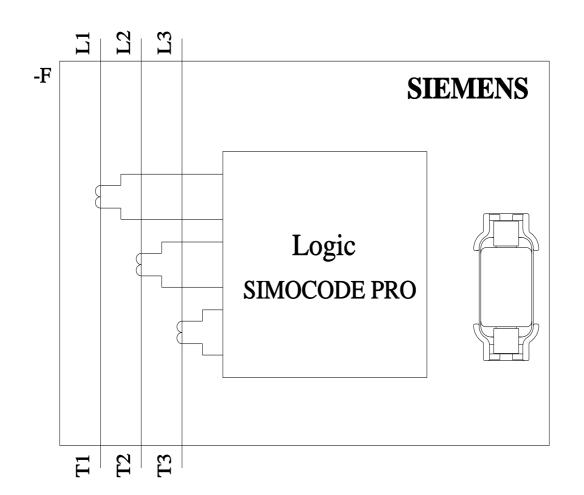
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF7103-1AA00-0&lang=en

Test report No. A0258, protective separation

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







last modified: 7/15/2022 **C**