## **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			
product function			
<ul> <li>current measurement</li> </ul>	Yes		
<ul> <li>voltage measurement</li> </ul>	No		
<ul> <li>active power measurement</li> </ul>	No		
<ul> <li>power measurement</li> </ul>	No		
frequency measurement	No		
product component			
input for thermistor connection	No		
insulation voltage			
<ul> <li>with degree of pollution 3 at AC rated value</li> </ul>	690 V		
for wires of main circuit acc. to IEC 60947-1 rated value	8 kV		
surge voltage resistance rated value	8 000 V		
protection class IP	IP00		
shock resistance acc. to IEC 60068-2-27	15g / 11 ms		
vibration resistance	1-6 Hz / 15 mm; 6-500 Hz / 2 g		
reference code acc. to IEC 81346-2	F		
Substance Prohibitance (Date)	01.07.2006		
certificate of suitability			
according to ATEX directive 2014/34/EU	BVS 06 ATEX F001		
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 acc. to IEC 60947-1	class A		
EMC immunity acc. to IEC 60947-1	corresponds to degree of severity 3		
conducted interference			
<ul><li>due to burst acc. to IEC 61000-4-4</li></ul>	2 kV		
• due to conductor-earth surge acc. to IEC 61000-4-5	2 kV		
<ul> <li>due to conductor-conductor surge acc. to IEC 61000-4-5</li> </ul>	1 kV		
field-based interference acc. 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		

<ul> <li>ground-fault monitoring</li> </ul>	No			
voltage detection	No			
product function				
current detection	Yes			
overload protection	Yes			
Installation/ mounting/ dimensions				
mounting position	any			
fastening method	direct mounting / stand-alon	e 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 connectable conductor cross-sections at the				
measurement inputs for current				
<ul> <li>solid with core end processing</li> </ul>	16 mm² 95 mm²			
stranded with core end processing	25 mm² 120 mm²			
at AWG cables	6 kcmil 300 kcmil	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 p	rotective separation)		
• 3 maximum	4 000 m; max. +40 °C (no p			
ambient temperature				
during operation	-25 +60 °C			
during storage	-40 +80 °C			
during transport	-40 +80 °C			
environmental category				
during operation acc. to IEC 60721	3K6 (no formation of ice, no	condensation relative	humidity 10 95%)	
adming operation door to 120 oor 21	3C3 (no salt mist), 3S2 (san		, , ,	
• during storage acc. to IEC 60721	1K6 (no condensation, relative humidity 10 95%), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4			
<ul> <li>during transport acc. to IEC 60721</li> </ul>	2K2, 2C1, 2S1, 2M2			
relative humidity during operation	5 95 %			
Short-circuit protection				
product function short circuit protection	No			
Galvanic isolation				
(electrically) protective separation acc. 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	20 200 A			
current-dependent overload release				
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	For use in hazard- ous locations	
			30.0 .000000110	













For use in hazardous locations

**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping







Type Test Certificates/Test Report

Special Test Certificate



Marine / Shipping

other







Confirmation



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=3UF7103-1BA00-0

Cax online generator

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

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

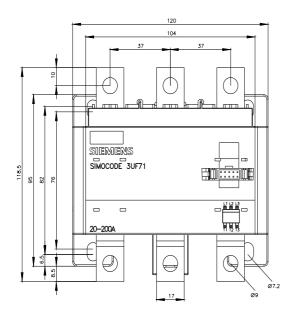
https://support.industry.siemens.com/cs/ww/en/ps/3UF7103-1BA00-0

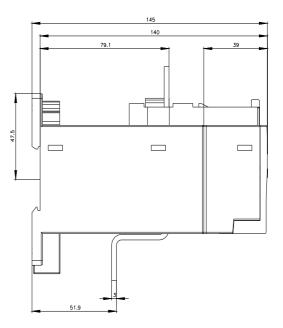
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$ 

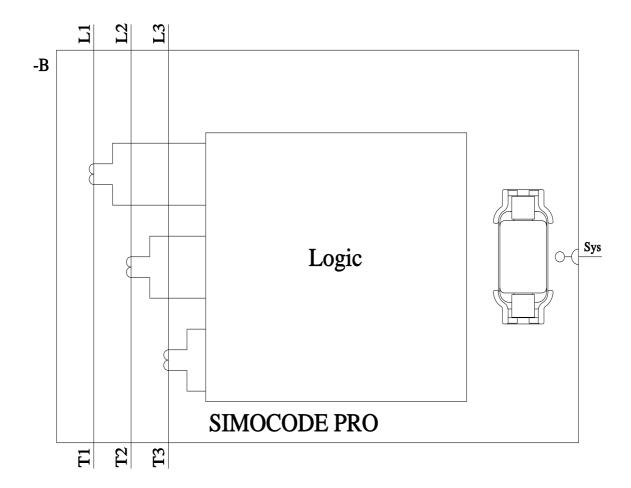
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3UF7103-1BA00-0&lang=en

Test report No. A0258, protective separation

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







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