SIEMENS

Data sheet 3UF7113-1AA00-0



Current/voltage measuring module Set current 20...200 A voltage measurement up to 690 V, overall width 120 mm, straight-through transformer

product brand name	SIRIUS
product designation	Current/voltage measuring module
General technical data	
product function	
 current measurement 	Yes
 voltage measurement 	Yes
 active power measurement 	Yes
 power measurement 	Yes
 frequency measurement 	No
current measuring range extension with external current transformers	No
measurable supply voltage between the line conductors at AC maximum rated value	690 V
line conductors and neutral conductors internal resistance for voltage measurement	1 M Ω ; R-based voltage divider
product component	
 input for thermistor connection 	No
consumed active power	0.3 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 	6 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)	05/28/2009
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 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

Inputs/ Outputs

field-based interference according to IEC 61000-4-3

10 V/m

number of outputs as contact-affected switching	0
element	
Protective and monitoring functions	
product function	
 power factor monitoring 	Yes
 ground-fault monitoring 	No
 voltage detection 	Yes
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	20
• top	30 mm
• bottom	30 mm
• left	0 mm
• right	0 mm
diameter of inlet opening	25 mm 25 mm
diameter of inlet opening for current measurement	23 111111
Connections/ Terminals type of electrical connection at the measurement	screw-type terminals
inputs for voltage	sciew-type terminals
type of connectable conductor cross-sections at the measurement inputs for voltage	
 finely stranded with core end processing 	1x (0.5 2.5 mm ²), 2x (0.5 1.5 mm ²)
• solid	1x (0.5 4 mm²), 2x (0.5 2.5 mm²)
 at AWG cables solid 	1x (20 14), 2x (20 14)
 at AWG cables stranded 	1x (20 14), 2x (20 16)
tightening torque at the measurement inputs for	0.8 1.2 N·m
voltage tightening torque [lbf·in] at the measurement inputs	7 10.3 lbf·in
for voltage	
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
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 50 Hz rated value — at 60 Hz rated value operating frequency rated value	110 690 V 110 690 V 50 60 Hz

Control circuit/ Control

type of voltage

Certificates/ approvals

General Product Approval

EMC



Confirmation



AC







For use in hazardous locations

Declaration of Conformity













Test Certificates

Marine / Shipping

Type Test Certificates/Test Report

Special Test Certificate

Special Test Certificate







Marine / Shipping

Confirmation

other



PROFINET-Certification

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=3UF7113-1AA00-0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UF7113-1AA00-0

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

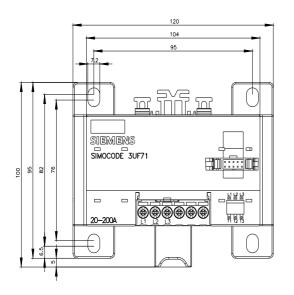
https://support.industry.siemens.com/cs/ww/en/ps/3UF7113-1AA00-0

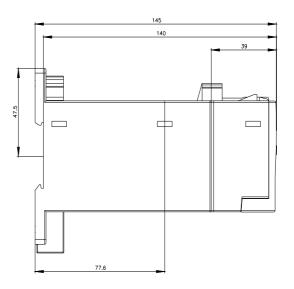
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

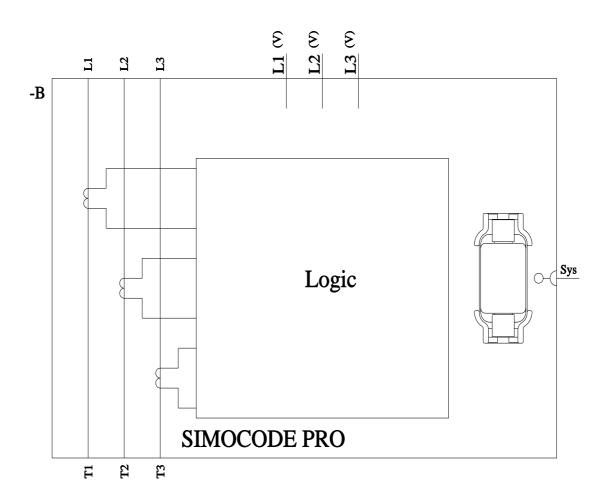
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF7113-1AA00-0&lang=en

Test report No. A0258, protective separation

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







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