SIEMENS

Data sheet 3UF7102-1AA00-0



Current measuring module, Set current 10...100 A Overall width 55 mm, straight-through transformer

product designation General technical data size of the circuit-breaker product function • current measurement Current measuring S2, S3 Yes	module
size of the circuit-breaker S2, S3 product function • current measurement Yes	
product function • current measurement Yes	
• 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 6 kV	
surge voltage resistance rated value 6 000 V	
shock resistance according to IEC 60068-2-27 15g / 11 ms	
vibration resistance 1-6 Hz / 15 mm; 6-5	500 Hz / 2 g
reference code according to IEC 81346-2	
Substance Prohibitance (Date) 05/28/2009	
SVHC substance name Lead - 7439-92-1 Lead monoxide (lea	ad oxide) - 1317-36-8
Weight 313 g	
Electromagnetic compatibility	
EMC emitted interference according to IEC 60947-1 class A	
EMC immunity according to IEC 60947-1 corresponds to deg	ree 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 1 kV 61000-4-5	
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	

trin class	CLASS FE
trip class	CLASS 5E
product function • current detection	Yes
overload protection	Yes
Installation/ mounting/ dimensions	165
mounting position	ODV.
	any
fastening method	screw and snap-on mounting 94 mm
height width	55 mm
depth	72 mm
required spacing	72 11111
• top	30 mm
• bottom	30 mm
• left	0 mm
• right	0 mm
diameter of inlet opening	14 mm
diameter of inlet opening for current measurement	14 mm
Connections/ Terminals	
type of electrical connection	
• for main current circuit	straight-through transformers
Ambient conditions	and the state of t
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
e during transport according to IEC 60721	
during transport according to IEC 60721 relative humidity during operation	2K2, 2C1, 2S1, 2M2 5 95 %
Short-circuit protection	3 53 /b
product function short circuit protection	No
ATEX	140
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	II (2) G, II (2) D, I (M2)
directive 2014/34/EU	·· (-, -, ·· (- , -, · (···-)
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
Main circuit	observed (link see further information)
Main circuit	3
number of poles for main current circuit adjustable current response value current of the current- dependent overload release	10 100 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 EMV	
Onotal Froduct Approval	LIVIV













EMV For use in hazardous locations

Test Certificates

<u>KC</u>







Miscellaneous

Special Test Certificate

Test Certificates

Maritime application

other

Type Test Certificates/Test Report











other

Environment

Industrial Communication

Confirmation



Environmental Confirmations



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=3UF7102-1AA00-0

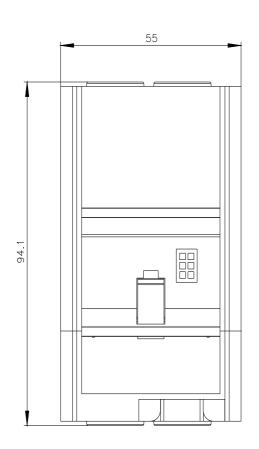
Cax online generator

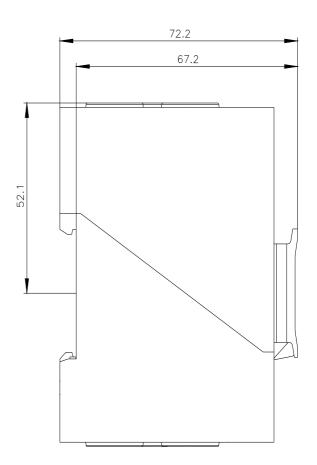
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

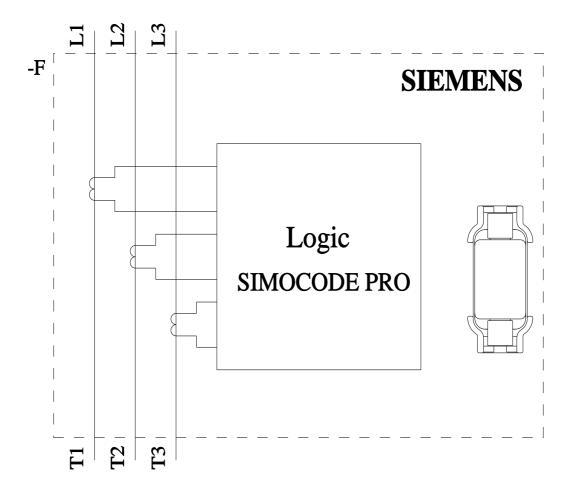
https://support.industry.siemens.com/cs/ww/en/ps/3UF7102-1AA00-0

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF7102-1AA00-0&lang=en







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