



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
- voltage measurement
- active power measurement
- power measurement
- frequency measurement

Yes

Yes

Yes

Yes

No

No

current measuring range extension with external current transformers

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 MΩ; 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
- for wires of main circuit according to IEC 60947-1 rated value

690 V

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
- due to conductor-earth surge according to IEC 61000-4-5
- due to conductor-conductor surge according to IEC 61000-4-5

2 kV

2 kV

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	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	
• 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
Connections/ Terminals	
type of electrical connection at the measurement inputs for voltage	screw-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 mm ²), 2x (0.5 ... 2.5 mm ²)
• 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 voltage	0.8 ... 1.2 N·m
tightening torque [lbf·in] at the measurement inputs for voltage	7 ... 10.3 lbf·in
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 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](#)



For use in hazardous locations				Declaration of Conformity	
					
ATEX	IECEX	ATEX	IECEX	EG-Konf.	

Test Certificates			Marine / Shipping		
Type Test Certificates/Test Report	Special Test Certificate	Special Test Certificate			
			ABS	URS	RMRS

Marine / Shipping	other		
	Confirmation		PROFINET-Certification
		Profibus	

Further information
<p>Information- and Downloadcenter (Catalogs, Brochures,...) https://www.siemens.com/ic10</p> <p>Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3UF7113-1AA00-0</p> <p>Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UF7113-1AA00-0</p> <p>Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3UF7113-1AA00-0</p> <p>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</p> <p>Test report No. A0258, protective separation https://support.industry.siemens.com/cs/ww/en/view/109748152</p>

