

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	
size of the circuit-breaker	S6
product function	
• current measurement	Yes
• voltage measurement	Yes
• active power measurement	Yes
• energy 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
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
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 Prohibition (Date)	05/28/2009
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8
Net Weight	0.69 kg
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	
<ul style="list-style-type: none"> • power factor monitoring • ground-fault monitoring • voltage detection 	<p>Yes</p> <p>No</p> <p>Yes</p>
trip class	CLASS 5E
product function	
<ul style="list-style-type: none"> • current detection • overload protection 	<p>Yes</p> <p>Yes</p>
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting
height	95 mm
width	120 mm
depth	145 mm
required spacing	
<ul style="list-style-type: none"> • top • bottom • left • right 	<p>30 mm</p> <p>30 mm</p> <p>0 mm</p> <p>0 mm</p>
diameter of inlet opening	25 mm
diameter of inlet opening for current measurement	25 mm
Connections/ Terminals	
type of electrical connection	
<ul style="list-style-type: none"> • for main current circuit • for auxiliary and control circuit 	<p>straight-through transformers</p> <p>screw-type terminals</p>
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	
<ul style="list-style-type: none"> • finely stranded with core end processing • solid • for AWG cables solid • for AWG cables stranded 	<p>1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1.5 mm²)</p> <p>1x (0.5 ... 4 mm²), 2x (0.5 ... 2.5 mm²)</p> <p>1x (20 ... 14), 2x (20 ... 14)</p> <p>1x (20 ... 14), 2x (20 ... 16)</p>
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	
<ul style="list-style-type: none"> • 1 maximum • 2 maximum • 3 maximum 	<p>2 000 m</p> <p>3 000 m; max. +50 °C (no protective separation)</p> <p>4 000 m; max. +40 °C (no protective separation)</p>
ambient temperature	
<ul style="list-style-type: none"> • during operation • during storage • during transport 	<p>-25 ... +60 °C</p> <p>-40 ... +80 °C</p> <p>-40 ... +80 °C</p>
environmental category	
<ul style="list-style-type: none"> • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 	<p>3K6 (no formation of ice, no condensation, relative humidity 10 ... 95%), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6</p> <p>1K6 (no condensation, relative humidity 10 ... 95%), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4</p> <p>2K2, 2C1, 2S1, 2M2</p>
relative humidity during operation	5 ... 95 %
Short-circuit protection	
product function short circuit protection	No
IEC 61508	
Safety Integrity Level (SIL) according to IEC 61508	1
ATEX	
certificate of suitability	
<ul style="list-style-type: none"> • 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)
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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 <ul style="list-style-type: none"> at AC <ul style="list-style-type: none"> at 50 Hz rated value at 60 Hz rated value 	110 ... 690 V 110 ... 690 V
operating frequency rated value	50 ... 60 Hz

Control circuit/ Control	
type of voltage	AC

Approvals Certificates	
Environment	General Product Approval



[Environmental Confirmations](#)



General Product Approval	EMV	For use in hazardous locations
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For use in hazardous locations	Test Certificates	Maritime application
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[Miscellaneous](#)

[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)

[Special Test Certificate](#)



Maritime application	other	Industrial Communication
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[Confirmation](#)



Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

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

<https://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, ...)

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



