## SIEMENS

## Data sheet

## 3UG4622-1AA30



Digital monitoring relay Current monitoring, 22.5 mm from 0.05-10 A AC/DC 0vershoot and undershoot Supply voltage: 24 V AC/DC 50 to 60 Hz DC and AC without galvanic isolation to measuring circuit ON delay and noise pulses delay 0.1 to 20 s Hysteresis 0.01 to 5 A 1 change-over contact with or without fault buffer screw terminal Successor product for 3UG3522-1AC..

Fig	ure	sim	ilar
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product brand name	SIRIUS
product designation	Current monitoring relay with digital setting
product type designation	3UG4
General technical data	
product function	Current monitoring relay
design of the display	LCD
insulation voltage for overvoltage category III according to IEC 60664	
<ul> <li>with degree of pollution 3 rated value</li> </ul>	690 V
degree of pollution	3
surge voltage resistance rated value	4 kV
maximum permissible voltage for protective separation	
<ul> <li>between auxiliary and auxiliary circuit</li> </ul>	300 V
<ul> <li>between control and auxiliary circuit</li> </ul>	300 V
protection class IP	IP20
shock resistance according to IEC 60068-2-27	sinusoidal half-wave 15g / 11 ms
mechanical service life (operating cycles) typical	10 000 000
electrical endurance (operating cycles) at AC-15 at 230 V typical	100 000
thermal current of the switching element with contacts maximum	5 A
reference code according to IEC 81346-2	К
relative repeat accuracy	1 %
Substance Prohibitance (Date)	05/01/2012
SVHC substance name	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8
Product Function	
product function	
<ul> <li>overcurrent detection 1 phase</li> </ul>	Yes
<ul> <li>overcurrent detection 3 phase</li> </ul>	No
<ul> <li>undercurrent detection 1 phase</li> </ul>	Yes
<ul> <li>undercurrent detection 3 phases</li> </ul>	No
overcurrent detection DC	Yes
<ul> <li>undercurrent detection DC</li> </ul>	Yes
<ul> <li>current window recognition DC</li> </ul>	Yes
<ul> <li>voltage window recognition 1 phase</li> </ul>	No
<ul> <li>voltage window recognition 3 phase</li> </ul>	No
<ul> <li>adjustable open/closed-circuit current principle</li> </ul>	Yes
external reset	Yes
auto-RESET	Yes

Supply voltage		
type of voltage of the supply voltage	AC/DC	
supply voltage 1 at AC		
• at 50 Hz rated value	24 V	
• at 50 Hz	20.4 26.4 V	
	20.4 20.4 V 24 V	
at 60 Hz rated value		
• at 60 Hz	20.4 26.4 V	
supply voltage 1 at DC	20.4 26.4 V	
supply voltage 1 at DC rated value	24 V	
Measuring circuit		
type of current for monitoring	AC/DC	
measurable current	0.05 15 A	
measurable line frequency	40 500 Hz	
adjustable current response value current		
• 1	0.05 10 A	
• 2	0.05 10 A	
adjustable response delay time		
when starting	0.1 20 s	
with lower or upper limit violation	0.1 20 s	
adjustable switching hysteresis for measured current value	10 5 000 mA	
buffering time in the event of power failure minimum	10 ms	
accuracy of digital display	+/-1 digit	
relative temperature-related measurement deviation	5 %	
internal resistance of the measuring circuit	5 mΩ	
Precision		
relative metering precision	5 %	
temperature drift per °C	0.1 %/°C	
Auxiliary circuit		
number of NC contacts delayed switching	0	
number of NO contacts delayed switching	0	
number of CO contacts delayed switching	1	
operating frequency with 3RT2 contactor maximum	5 000 1/h	
Main circuit		
number of poles for main current circuit	1	
operating voltage rated value	24 24 V	
ampacity of the output relay at AC-15		
• at 250 V at 50/60 Hz	3 A	
• at 400 V at 50/60 Hz	3 A	
ampacity of the output relay at DC-13		
• at 24 V	1 A	
• at 125 V	0.2 A	
• at 250 V	0.1 A	
operational current at 17 V minimum	0.005 A	
continuous current of the DIAZED fuse link of the output	4 A	
relay		
Electromagnetic compatibility		
conducted interference		
<ul> <li>due to burst according to IEC 61000-4-4</li> </ul>	2 kV	
<ul> <li>due to conductor-earth surge according to IEC 61000-4-5</li> </ul>	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	
electrostatic discharge according to IEC 61000-4-2	6 kV contact discharge / 8 kV air discharge	
Galvanic isolation		
design of the electrical isolation	Protective separation	
galvanic isolation		
<ul> <li>between input and output</li> </ul>	Yes	
<ul> <li>between the outputs</li> </ul>	Yes	
<ul> <li>between the voltage supply and other circuits</li> </ul>	No	
Connections/ Terminals		
product component removable terminal for main circuit	Yes	

product component removable terminal for auxilia control circuit	ary and Yes		
type of electrical connection			
<ul> <li>for main current circuit</li> </ul>	screw-type terminals		
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals		
type of connectable conductor cross-sections			
• solid	1x (0.5 4.0 mm²), 2x (0.5	2.5 mm <sup>2</sup> )	
<ul> <li>finely stranded with core end processing</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5		
<ul> <li>for AWG cables solid</li> </ul>	2x (20 14)	······,	
for AWG cables stranded	2x (20 14)		
connectable conductor cross-section			
solid	0.5 4 mm²		
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 4 mm		
AWG number as coded connectable conductor cr section			
	00 44		
• solid	20 14		
• stranded	20 14		
tightening torque with screw-type terminals	0.8 1.2 N·m		
stallation/ mounting/ dimensions			
mounting position	any		
fastening method	snap-on mounting		
height	92 mm		
width	22.5 mm		
depth	91 mm		
required spacing			
<ul> <li>with side-by-side mounting</li> </ul>			
— forwards	0 mm		
— backwards	0 mm		
— upwards	0 mm		
— downwards	0 mm		
— at the side	0 mm		
<ul> <li>for grounded parts</li> </ul>			
— forwards	0 mm		
— backwards	0 mm		
— upwards	0 mm		
— at the side	0 mm		
— downwards	0 mm		
	0 mm		
• for live parts	0		
— forwards	0 mm		
— backwards	0 mm		
— upwards	0 mm		
— downwards	0 mm		
— at the side	0 mm		
Ambient conditions			
installation altitude at height above sea level maximum	m 2 000 m		
ambient temperature			
<ul> <li>during operation</li> </ul>	-25 +60 °C		
during storage	-40 +85 °C		
during transport	-40 +85 °C		
Approvals Certificates			
General Product Approval			
		Ē	ror
EG-Konf.	UK Confirmation		EHC
	est Certificates	Marine / Shipping	



<u>Type Test Certific-</u> ates/Test Report Special Test Certificate



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other

**Confirmation** 

Information
Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
Information- and Downloadcenter (Catalogs, Brochures,...)
https://www.siemens.com/c10
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3UG4622-1AA30
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4622-1AA30
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3UG4622-1AA30
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
https://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3UG4622-1AA30&lang=en
Characteristic: Derating
https://support.industry.siemens.com/cs/ww/en/ps/3UG4622-1AA30/manual

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