## **SIEMENS**

Data sheet 3UG4621-1AW30



DIGITAL MONITORING RELAY CURRENT MONITORING, 22.5MM FROM 2 TO 500MA AC/DC OVERSHOOT A. UNDERSHOOT AC/DC 24 TO 240V DC AND AC 50 TO 60 HZ ON AND SPIKE DELAY 0.1 TO 20S HYSTERESIS 0.1 TO 250MA 1 CO CONTACT W. OR W/O ERROR MEMORY SCREW CONNECTION REPLACEMENT PRODUCT FOR 3UG3521-1AL20, 3UG3521-1AG20 AND 3UG3521-1AC48-0AA1

## Figure similar

Product function		Current monitoring relay	
Measuring circuit:			
Number of poles for main current circuit		1	
Type of current for monitoring		AC/DC	
Measurable current	Α	0.003 0.6	
Measurable current at AC	mA	3 600	
Measurable line frequency	Hz	40 500	
Adjustable response value current			
• 1	Α	0.003 0.5	
• 2	Α	0.003 0.5	
Adjustable response delay time			
<ul><li>when starting</li></ul>	S	0.1 20	
<ul> <li>with lower or upper limit violation</li> </ul>	S	0.1 20	
Adjustable switching hysteresis for measured current value	mA	0.1 250	
Buffering time in the event of power failure minimum	ms	10	
Operating voltage Rated value	V	24 240	
Response time maximum	ms	450	
Relative metering precision	%	5	

Accuracy of digital display		+/-1 digit
Relative temperature-related measurement deviation	%	5
Temperature drift per °C	%/°C	0.1
Relative repeat accuracy	%	1

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General technical data:				
Design of the display		LCD		
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		
External reset		Yes		
Auto-reset		Yes		
Adjustable open/closed-circuit current principle		Yes		
Startup time after the control supply voltage has been	ms	1 000		
applied				
Type of voltage of the supply voltage		AC/DC		
Supply voltage				
• 1 at AC				
— at 50 Hz	V	24 240		
— at 60 Hz	V	240 24		
• 1				
— at DC	V	24 240		
Surge voltage resistance Rated value	kV	4		
Active power consumption	W	2		
Protection class IP		IP20		
Electromagnetic compatibility		IEC 60947-1 / IEC 61000-6-2 / IEC 61000-6-4		
Vibration resistance acc. to IEC 60068-2-6		1 6 Hz: 15 mm, 6 500 Hz: 2g		
Shock resistance acc. to IEC 60068-2-27		sinusoidal half-wave 15g / 11 ms		
Installation altitude at height above sea level maximum	m	2 000		
Conducted interference due to burst acc. to IEC 61000-4-4		2 kV		
Conducted interference due to conductor-earth surge acc. to IEC 61000-4-5		2 kV		
Conducted interference due to conductor-conductor surge acc. to IEC 61000-4-5		1 kV		
Electrostatic discharge acc. to IEC 61000-4-2		6 kV contact discharge / 8 kV air discharge		
Field-bound parasitic coupling acc. to IEC 61000-4-3		10 V/m		

Insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 Rated value	V	690
maximum permissible voltage for safe isolation		
between control and auxiliary circuit	V	300
between auxiliary and auxiliary circuit	V	300
Degree of pollution		3
Ambient temperature		
during operation	°C	-25 <b>+</b> 60
during storage	°C	-40 +85
during transport	°C	-40 +85
Galvanic isolation	_	
<ul> <li>between entrance and outlet</li> </ul>		Yes
<ul><li>between the outputs</li></ul>		Yes
<ul> <li>between the voltage supply and other circuits</li> </ul>		Yes
Mechanical data:		
Width	mm	22.5
Height	mm	92
Depth	mm	91
mounting position		any
Required spacing for grounded parts		
• forwards	mm	0
Backwards	mm	0
• at the side	mm	0
• upwards	mm	0
<ul><li>downwards</li></ul>	mm	0
Required spacing with side-by-side mounting		
• forwards	mm	0
<ul> <li>Backwards</li> </ul>	mm	0
• at the side	mm	0
• upwards	mm	0
• downwards	mm	0
Required spacing for live parts		
• forwards	mm	0
Backwards	mm	0
• at the side	mm	0
• upwards	mm	0
• downwards	mm	0
Mounting type		snap-on mounting
Type of electrical connection		
<ul> <li>for auxiliary and control current circuit</li> </ul>		screw-type terminals
for main current circuit		screw-type terminals

Product function		
<ul> <li>removable terminal for auxiliary and control circuit</li> </ul>		Yes
<ul> <li>removable terminal for main circuit</li> </ul>		Yes
Type of connectable conductor cross-section		
• solid		1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
• finely stranded		
<ul><li>— with core end processing</li></ul>		1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
<ul><li>for AWG conductors</li></ul>		
— solid		2x (20 14)
— stranded		2x (20 14)
Tightening torque with screw-type terminals	N·m	0.8 1.2

Outputs:		
Number of NO contacts delayed switching		0
Number of NC contacts delayed switching		0
Number of CO contacts delayed switching		1
Ampacity		
● of the output relay		
— at AC-15		
— at 250 V at 50/60 Hz	Α	3
— at 400 V at 50/60 Hz	Α	3
— at DC-13		
— at 24 V	Α	1
— at 125 V	Α	0.2
— at 250 V	Α	0.1
• for permanent overcurrent maximum	Α	0.6
permissible		
<ul><li>for overcurrent duration &lt; 1 s maximum</li></ul>	Α	5
permissible		
Operating current at 17 V minimum	Α	0.005
Continuous current of the DIAZED fuse link of the output relay	Α	4
Thermal current of the switching element with	Α	5
contacts maximum		
Mechanical service life (switching cycles) typical		10 000 000
Electrical endurance (switching cycles) at AC-15 at		100 000
230 V typical		
Operating frequency with 3RT2 contactor maximum	1/h	5 000

Certificates/ approvals:

General Product Approval EMC Declaration of Conformity Certificates











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Test	Shipping Approval			other	
Certificates					
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<u>"</u>	DNV	GI	LRS		

## Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

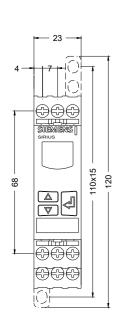
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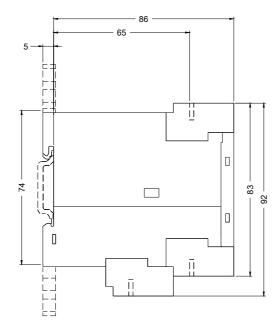
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG46211AW30

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

https://support.industry.siemens.com/cs/ww/en/ps/3UG46211AW30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3UG46211AW30&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3UG46211AW30&lang=en</a>





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