SIEMENS

Data sheet 3UG4621-1AW30



Digital monitoring relay Current monitoring, 22.5 mm from 2-500 mA AC/DC 0vershoot and undershoot 24 to 240 V AC/DC 50 to 60 Hz DC and AC ON delay and noise pulses delay 0.1 to 20 s Hysteresis 0.1 to 250 mA 1 change-over contact with or without fault buffer screw terminal Successor 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 pick-up value current		
• 1	Α	0.003 0.5
• 2	Α	0.003 0.5
Adjustable response delay time		
when starting	S	0.1 20
 with lower or upper limit violation 	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

General technical data:		
Design of the display		LCD
Product function		200
Overcurrent detection 1 phase		Yes
Overcurrent detection 3 phase		No
undercurrent detection 1 phase		Yes
undercurrent detection 3 phases		No
Overcurrent detection DC		Yes
undercurrent detection DC		Yes
Current window recognition DC		Yes
External reset		Yes
Auto-reset		Yes
Adjustable open/closed-circuit current principle		Yes
Starting time after the control supply voltage has	ms	1 000
been applied	1113	1 000
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
Consumed active power	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 + 60
during storage	°C	-40 +85
during transport	°C	-40 + 85
Galvanic isolation		
 between entrance and outlet 		Yes
between the outputs		Yes
 between the voltage supply and other circuits 		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
• downwards	mm	0
Required spacing with side-by-side mounting		
forwards	mm	0
Backwards	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		
 for auxiliary and control current circuit 		screw-type terminals

for main current circuit		screw-type terminals
Product function		
 removable terminal for auxiliary and control 		Yes
circuit		
 removable terminal for main circuit 		Yes
Type of connectable conductor cross-sections		
• solid		1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
• finely stranded		
— with core end processing		1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
 at AWG conductors 		
— 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			
 for overcurrent duration < 1 s maximum 	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 230 V typical		100 000	
Operating frequency with 3RT2 contactor maximum	1/h	5 000	

Certificates/ approvals:

General Product Approval EMC Declaration of Conformity ates











Type Test Certificates/Test Report

Test Certific- ates	Shipping Ap- proval	other	Railway
Special Test Certificate	Lloyd's	Confirmation	<u>Vibration and Shock</u>

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

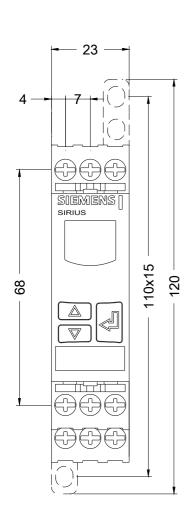
Cax online generator

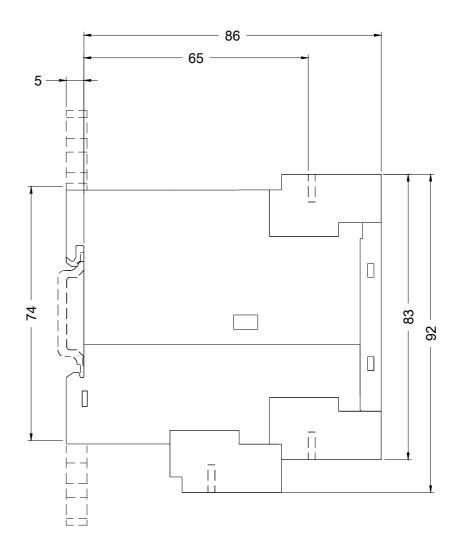
 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3UG4621-1AW30}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3UG4621-1AW30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG4621-1AW30&lang=en





last modified:

10/23/2018