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 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
Degree of pollution	3
Surge voltage resistance rated value	4 kV
maximum permissible voltage for safe isolation	
 between auxiliary and auxiliary circuit 	300 V
 between control and auxiliary circuit 	300 V
Protection class IP	IP20
Shock resistance	
• acc. to IEC 60068-2-27	sinusoidal half-wave 15g / 11 ms
Mechanical service life (switching cycles)	
• typical	10 000 000
Electrical endurance (switching cycles)	

• at AC-15 at 230 V typical	100 000
Thermal current of the switching element with contacts maximum	5 A
Reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750	κ
Reference code acc. to DIN EN 81346-2	К
Reference code acc. to DIN EN 61346-2	К
Relative repeat accuracy	1 %
Product Function	

Product	

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Product function	
 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
 Voltage window recognition 1 phase 	No
 Voltage window recognition 3 phase 	No
 Adjustable open/closed-circuit current principle 	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	24 240 V
● at 60 Hz	240 24 V
Supply voltage 1 at DC	24 240 V

Measuring circuit	
Type of current for monitoring	AC/DC
Measurable current	0.003 0.6 A
Measurable line frequency	40 500 Hz
Adjustable pick-up value current	
• 1	0.003 0.5 A
• 2	0.003 0.5 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	0.1 250 mA
value	
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	500 mΩ
Precision	
Relative metering precision	5 %
Temperature drift per °C	0.1 %/°C
Auxiliary circuit	
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	24 240 V
Outputs	
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
Operating current at 17 V minimum	0.005 A
Continuous current of the DIAZED fuse link of the	4 A
output relay	
Electromagnetic compatibility	
Conducted interference	
• due to burst acc. to IEC 61000-4-4	2 kV
 due to conductor-earth surge acc. to IEC 61000-4-5 	2 kV
 due to conductor-conductor surge acc. to IEC 61000-4-5 	1 kV
Field-bound parasitic coupling acc. to IEC 61000-4-3	10 V/m
Electrostatic discharge acc. to IEC 61000-4-2	6 kV contact discharge / 8 kV air discharge
Galvanic isolation	
Design of the electrical isolation	Safe isolation
Galvanic isolation	
 between entrance and outlet 	Yes
• between the outputs	Yes
• between the voltage supply and other circuits	Yes

Connections/Terminals	
Product function	
 removable terminal for main circuit 	Yes
 removable terminal for auxiliary and control 	Yes
circuit	
Type of electrical connection	
• for main current circuit	screw-type terminals
 for auxiliary and control current circuit 	screw-type terminals
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)
 at AWG conductors stranded 	2x (20 14)
Connectable conductor cross-section	
• solid	0.5 4 mm²
 finely stranded with core end processing 	0.5 2.5 mm ²
AWG number as coded connectable conductor cross	
section	
• solid	20 14
• stranded	20 14
Tightening torque	
with screw-type terminals	0.8 1.2 N·m

nstallation/ mounting/ dimensions	
Mounting position	any
Mounting type	snap-on mounting
Height	92 mm
Width	22.5 mm
Depth	91 mm
Required spacing	
with side-by-side mounting	
— forwards	0 mm
— Backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	0 mm
• for grounded parts	
— forwards	0 mm
— Backwards	0 mm
— upwards	0 mm
— at the side	0 mm
— downwards	0 mm
• for live parts	

 — 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 2 000 m

Certificates/approvals

General Product Approval

EMC

Declaration of Conformity











Miscellaneous

Test Certificates

Marine / Shipping

other

Railway

Type Test Certificates/Test Report

Special Test Certificate



LRS



<u>Confirmation</u> <u>Vibration and Shock</u>

Further information

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

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

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3UG4621-1AW30

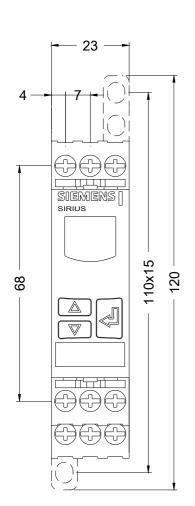
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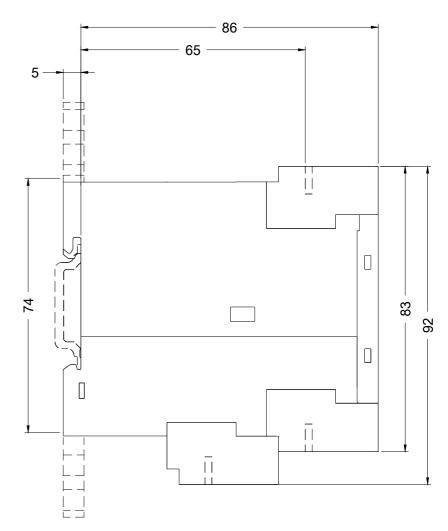
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4621-1AW30

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: