SIEMENS

Data sheet

3UG4621-1AA30



Digital monitoring relay Current monitoring, 22.5 mm from 2-500 mA 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 0.1 to 250 mA 1 change-over contact with or without fault buffer screw terminal Successor product for 3UG3521-1AC..

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			
 with degree of pollution 3 rated value 	690 V		
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		
vibration resistance acc. to IEC 60068-2-6	1 6 Hz: 15 mm, 6 500 Hz: 2g		
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 IEC 81346-2	К		
relative repeat accuracy	1 %		
Substance Prohibitance (Date)	01.05.2012 00:00:00		
Product Function			
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 rated value	24 V
• at 50 Hz	20.4 26.4 V
at 60 Hz rated value	24 V
• 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	2 7 7
type of current for monitoring	AC/DC
measurable current	0.003 0.6 A
measurable line frequency	40 500 Hz
adjustable current response value current	40 300 112
• 1	0.003 0.5 A
• 2	0.003 0.5 A
adjustable response delay time	0.000 0.0 A
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 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
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
operational 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-based interference 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	Protective separation
galvanic isolation	Vac
between input and output	Yes
 between the outputs between the voltage supply and other circuits 	No
 between the voltage supply and other circuits 	INU

product component removable terminal for main	Yes			
circuit				
product component removable terminal for auxiliary and control circuit	Yes			
type of electrical connection				
 for main current circuit 	screw-type terminals			
 for auxiliary and control 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 cables solid 	2x (20 14)			
 at AWG cables stranded 	2x (20 14)			
connectable conductor cross-section				
• solid	0.5 4 mm²			
 finely stranded with core end processing 	0.5 2.5 mm²			
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			
istallation/ mounting/ dimensions				
mounting position	any			
fastening method	snap-on mounting			
height	92 mm			
width	22.5 mm			
	91 mm			
depth	9111111			
required spacing				
with side-by-side mounting	0			
— 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			
mbient conditions				
installation altitude at height above sea level maximum	2 000 m			
ambient temperature				
during operation	-25 +60 °C			
during storage	-40 +85 °C			
during transport	-40 +85 °C			
ertificates/ approvals				
General Product Approval	EMC Declaration of Test Certificate			
	Conformity Conformity			
	r A <u>Special Test Certi</u>			

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Test Certificates	Marine / Shipping		other	Railway
<u>Type Test Certific-</u> ates/Test Report	Lloyds Register urs	DNV-GL	<u>Confirmation</u>	<u>Vibration and Shock</u>

Further information	
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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=3UG4621-1AA30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4621-1AA30

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

https://support.industry.siemens.com/cs/ww/en/ps/3UG4621-1AA30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG4621-1AA30&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3UG4621-1AA30/manual

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