SIEMENS

Data sheet

3UG4621-1AA30



DIGITAL MONITORING RELAY CURRENT MONITORING, 22.5MM FROM 2 TO 500MA AC/DC OVERSHOOT AND UNDERSHOOT SUPPLY VOLTAGE: AC/DC 24V DC AND AC 50 TO 60 HZ NO GALVANIC ISOLATION FROM MEASURING CIRCUIT STARTUP AND INTERF. PEAK DELAY 0.1 TO 20S HYSTERESIS 0.1 TO 250MA 1 CO CONTACT W. OR W/O ERROR LOG SCREW TERMINAL REPLACEMENT PRODUCT FOR 3UG3521-1AC..

Product function		Current monitoring relay			
Measuring circuit:					
Number of poles for main current circuit		1			
Type of current for monitoring		AC/DC			
Measurable current	А	0.003 0.6			
Measurable current at AC	mA	3 600			
Measurable line frequency	Hz	40 500			
Adjustable response value current					
• 1	А	0.003 0.5			
• 2	А	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 24			
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		
 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
Startup time after the control supply voltage has been applied	ms	1 000
Type of voltage of the supply voltage		AC/DC
Supply voltage		
• 1 at AC		
— at 50 Hz rated value	V	24
— at 60 Hz rated value	V	24
• 1		
— at DC rated value	V	24
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 +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 		No

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			

.

-	
	Yes
	Yes
-	
	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
	2x (20 14)
	2x (20 14)
N∙m	0.8 1.2
_	0
-	0
	1
_	
А	3
А	3
А	1
А	0.2
А	0.1
A	0.6
A A	0.6 5
A	5
A	5 0.005
A A A	5 0.005 4
A A A	5 0.005 4 5
	A A A A

Certificates/ approvals:

General Proc	duct Approval	EMC	Declaration of Conformity	Test Certificates
	EHC	С-тіск	EG-Konf.	Typprüfbescheinigu ng/Werkszeugnis

Test Certificates	Shipping A	pproval		other	Railway
spezielle Prüfbescheinigunge <u>n</u>	JÅ DNV DNV	GL	Lloyd's Register	<u>Bestätigungen</u>	Schwingen/Schocke <u>n</u>

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

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG46211AA30

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3UG46211AA30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG46211AA30&lang=en

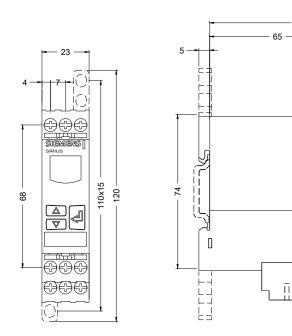
ii

ū

83

92

86



last modified: