SIEMENS

Data sheet 3UG4622-1AW30



DIGITAL MONITORING RELAY CURRENT MONITORING, 22.5MM FROM 0.05 TO 10A 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 0.01 TO 5A 1 CO CONTACT W. OR W/O ERROR MEMORY SCREW CONNECTION REPLACEMENT PRODUCT FOR 3UG3522-1AL20, 3UG3522-1AG20 AND 3UG3522-1AC48-0AA1

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	0.05 15
Measurable current with AC	mA	50 15 000
Measurable line frequency	Hz	40 500
Adjustable response value current		
• 1	Α	0.5 10
• 2	Α	0.5 10
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	mA	10 5 000
value		
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:		
Deficial Conflicat 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	ms	1 000
applied		
Type of voltage of the supply voltage		AC/DC
Supply voltage		
• 1 with AC		
— at 50 Hz	V	24 240
— at 60 Hz	V	240 24
• 1		
— for 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 + 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 circuit 		Yes
 removable terminal for main circuit 		Yes
Type of connectable conductor cross-section		
• 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)
• for 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
<u> </u>		I
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	15
permissible		
for overcurrent duration < 1 s maximum	Α	50
permissible		
Operating current at 17 V minimum	Α	0.005
Continuous current of the DIAZED fuse link of the	Α	4
output relay		
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

Test Certificates









Special Test Certificate

Type Test Certificates/Test Report

Shipping Approval

other





GL



other

Declaration of Conformity

Further information

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

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

Industry Mall (Online ordering system)

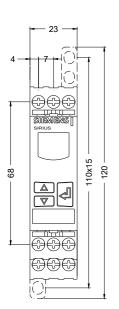
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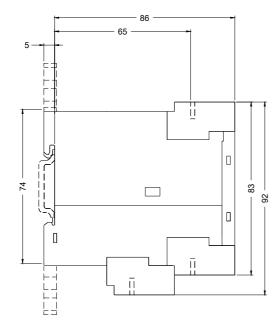
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG46221AW30

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3UG46221AW30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG46221AW30&lang=en





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