SIEMENS

Product 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	A	0.05 15	
• for AC	mA	50 15,000	
Measurable line frequency	Hz	40 500	
Adjustable response current			
• 1	А	0.5 10	
•2	А	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 value	mA	10 5,000	
Stored energy time / at mains power cut / minimum	ms	10	
Operating voltage			
rated value	V	24 240	
Response time / maximum	ms	450	
Relative metering precision	%	5	
Precision of digital display		+/-1 digit	

Relative temperature-related measurement deviation	%	5
Temperature drift per °C	%/°C	0.1
Relative repeat accuracy	%	1
General technical details:		
Design of the display		LCD
Product function		
 overcurrent recognition of 1 phase 		Yes
 overcurrent recognition of 3 phases 		No
 undercurrent recognition of 1 phase 		Yes
 undercurrent recognition of 3 phases 		No
overcurrent recognition DC		Yes
undercurrent recognition DC		Yes
current window recognition DC		Yes
reset external		Yes
• self-reset		Yes
 open-circuit or closed-circuit current principle 		Yes
Starting time / after the control supply voltage has been applied	ms	1,000
Type of / supply voltage		AC/DC
Supply voltage / 1		
• at 50 Hz		
• for AC	V	24 240
• at 60 Hz		
• for AC	V	240 24
• for DC	V	24 240
Impulse voltage resistance / rated value	kV	4
Recorded real power	W	2
Protection class IP		IP20
Electromagnetic compatibility	-	IEC 60947-1 / IEC 61000-6-2 / IEC 61000-6-4
Resistance against vibration / according to IEC 60068-2-6		1 6 Hz: 15 mm, 6 500 Hz: 2g
Resistance against shock / according to IEC 60068-2-27		sinusoidal half-wave 15g / 11 ms
Installation altitude / at a height over sea level / maximum	m	2,000
Conductor-bound parasitic coupling BURST / according to IEC 61000-4-4		2 kV
Conductor-bound parasitic coupling conductor-earth SURGE / according to IEC 61000-4-5		2 KV
Conductor-bound parasitic coupling conductor-conductor SURGE / according to IEC 61000-4-5		1 kV
Electrostatic discharge / according to IEC 61000-4-2		6 kV contact discharge / 8 kV air discharge
Field-bound parasitic coupling / according 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 disconnection		
 between control and auxiliary circuit 	V	300
 between auxiliary circuit and auxiliary circuit 	V	300
Degree of pollution		3
Ambient temperature		
during operating	°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 design:

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Distance, to be maintained, conductive elementsImmO• forwardsmm0• backwardsmm0• sidewardsmm0• upwardsmm0• downwardsmm0• downwardsmm0• Mounting typeImm0	• upwards	mm	0
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• upwardsmm0• downwardsmm0Mounting typeImm0	backwards	mm	0
• downwards mm 0 Mounting type 2	• sidewards	mm	0
Mounting type snap-on mounting	• upwards	mm	0
	downwards	mm	0
	Mounting type		snap-on mounting
Design of the electrical connection	Design of the 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 the connectable conductor cross-sections		
• solid		1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
finely stranded		
with wire 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
Outpute		
Outputs:		
Number of NO contacts / delayed switching		0
Number of NO contacts / delayed switching Number of NC contacts / delayed switching	_	0
Number of NO contacts / delayed switching		
Number of NO contacts / delayed switching Number of NC contacts / delayed switching		0
Number of NO contacts / delayed switching Number of NC contacts / delayed switching Number of change-over switches / delayed switching		0
Number of NO contacts / delayed switching Number of NC contacts / delayed switching Number of change-over switches / delayed switching Current carrying capacity		0
Number of NO contacts / delayed switching Number of NC contacts / delayed switching Number of change-over switches / delayed switching Current carrying capacity • of output relay	A	0
Number of NO contacts / delayed switching Number of NC contacts / delayed switching Number of change-over switches / delayed switching Current carrying capacity • of output relay • at AC-15	A	0 1
Number of NO contacts / delayed switching Number of NC contacts / delayed switching Number of change-over switches / delayed switching Current carrying capacity • of output relay • at AC-15 • at 250 V / at 50/60 Hz		0 1 3
Number of NO contacts / delayed switching Number of NC contacts / delayed switching Number of change-over switches / delayed switching Current carrying capacity • of output relay • at AC-15 • at 250 V / at 50/60 Hz • at 400 V / at 50/60 Hz		0 1 3
Number of NO contacts / delayed switching Number of NC contacts / delayed switching Number of change-over switches / delayed switching Current carrying capacity • of output relay • at AC-15 • at 250 V / at 50/60 Hz • at 400 V / at 50/60 Hz • at DC-13	A	0 1 3 3
Number of NO contacts / delayed switching Number of NC contacts / delayed switching Number of change-over switches / delayed switching Current carrying capacity • of output relay • at AC-15 • at 250 V / at 50/60 Hz • at 400 V / at 50/60 Hz • at DC-13 • at 24 V	A	0 1 3 3 1
Number of NO contacts / delayed switching Number of NC contacts / delayed switching Number of change-over switches / delayed switching Current carrying capacity • of output relay • at AC-15 • at 250 V / at 50/60 Hz • at 400 V / at 50/60 Hz • at 24 V • at 125 V	A A A	0 1 3 3 1 0.2

Certificates/approvals:

Operating current / at 17 V / minimum

Continuous current / of the DIAZED fuse link of the output relay

Thermal current / of the contact-affected switching element /

Electrical operating cycles as operating time / at AC-15 / at 230

Mechanical operating cycles as operating time / typical

Operating cycles / with 3RT2 contactor / maximum

maximum

V / typical

А

А

А

1/h

0.0050

10,000,000

100,000

5,000

4

5

General Product A	oproval	EMC	Test Certificates	
		Стіск	Special Test Certificate	Type Test Certificates/Test Report
Shipping Approval			other	
Ĵ.Å DNV DNV	GL	Llovd's Register LRS	Declaration of Conformity	other

Further information:

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

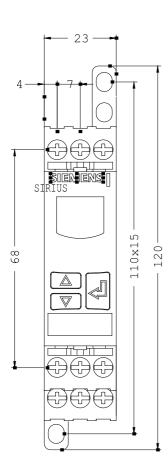
http://www.siemens.com/industrial-controls/mall

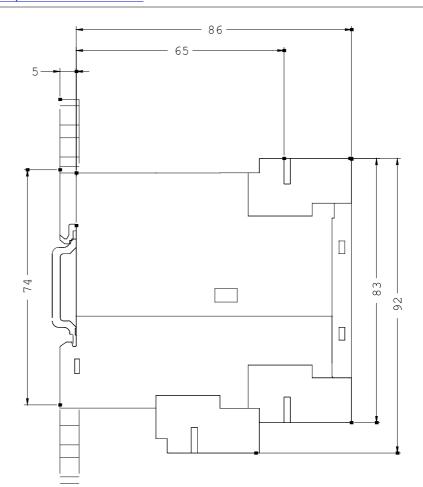
Cax online generator:

http://www.siemens.com/cax

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3UG4622-1AW30/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3UG4622-1AW30





last change:

Mar 17, 2014