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	Α	0.05 15
• for AC	mA	50 15,000
Measurable line frequency	Hz	40 500
Adjustable response 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 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 voltage / 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:		
Width	mm	22.5
Height	mm	92
Depth	mm	91
mounting position		any
Distance, to be maintained, to earthed part		
• forwards	mm	0
• backwards	mm	0
• sidewards	mm	0
• upwards	mm	0
• downwards	mm	0
Distance, to be maintained, to the ranks assembly		
• forwards	mm	0
• backwards	mm	0
• sidewards	mm	0
• upwards	mm	0
• downwards	mm	0
Distance, to be maintained, conductive elements		
• forwards	mm	0
• backwards	mm	0
• sidewards	mm	0
• upwards	mm	0
• downwards	mm	0
Type of mounting		snap-on mounting
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-section		
• solid		1x (0.5 4 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

Outputs:		
Number of NO contacts / delayed switching		0
Number of NC contacts / delayed switching		0
Number of change-over switches / delayed switching		1
Current carrying capacity		
of output relay		
• at AC-15		
• at 250 V / at 50/60 Hz	Α	3
• at 400 V / at 50/60 Hz	А	3
• at DC-13		
• at 24 V	А	1
• at 125 V	А	0.2
• at 250 V	А	0.1
• for permanent overcurrent / maximum permissible	А	15
• for overcurrent duration < 1 s / maximum permissible	Α	50
Operating current / at 17 V / minimum	А	0.0050
Continuous current / of the DIAZED fuse link of the output relay	Α	4
Thermal current / of the contact-affected switching element / maximum	Α	5
Mechanical operating cycles as operating time / typical		10,000,000
Electrical operating cycles as operating time / at AC-15 / at 230 V / typical		100,000
Operating cycles / with 3RT2 contactor / maximum	1/h	5,000

Certificates/approvals:

General Product Approval







EMC

other

Special Test Certificate

Test Certificates

Shipping Approval







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:

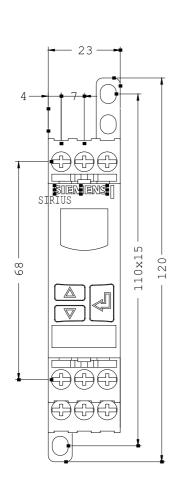
http://www.siemens.com/cax

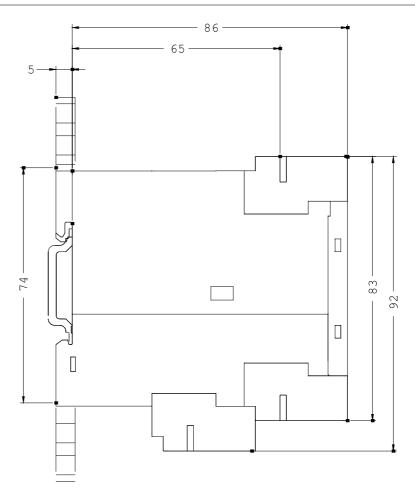
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

 $\underline{\text{http://support.automation.siemens.com/WW/view/en/3UG4622-1AW30/all}}$

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3UG4622-1AW30





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