SIEMENS

Data sheet 3UG4622-1AW30



Digital monitoring relay Current monitoring, 22.5 mm from 0.05-10 A AC/DC Overshoot and undershoot 24 to 240 V AC/DC 50 to 60 Hz DC and AC ON delay and noise pulses delay 0.1 to 20 s Hysteresis 0.01 to 5 A 1 change-over contact with or without fault buffer screw terminal Successor product for 3UG3522-1AL20, 3UG3522-1AG20 and 3UG3522-1AC48-0AA1

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 (operating 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	K		
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	AOIDO
• at 50 Hz	20.4 264 V
• at 60 Hz	20.4 264 V
supply voltage 1 at DC	20.4 264 V
	20.7 207 V
Measuring circuit	ACIDO
type of current for monitoring measurable current	AC/DC
	0.05 15 A 40 500 Hz
measurable line frequency	40 500 FIZ
adjustable current response value current • 1	0.05 10 A
• 2	0.05 10 A
adjustable response delay time	0.03 10 A
when starting	0.1 20 s
with lower or upper limit violation	0.1 20 s
adjustable switching hysteresis for measured current	10 5 000 mA
value	10 0 000 HIM
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	5 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	24 240 V
Outputs	21210 *
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 	1 kV
61000-4-5	
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	
 between input and output 	Yes
 between the outputs 	Yes

• between the voltage supply and other ci	rcuits Yes			
Connections/ Terminals				
product function				
 removable terminal for main circuit 	Yes			
 removable terminal for auxiliary and con 	trol circuit Yes			
type of electrical connection				
for main current circuit	scre	ew-type terminals		
 for auxiliary and control circuit 		ew-type terminals		
type of connectable conductor cross-section				
• solid		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 		2.5 mm²		
AWG number as coded connectable condu		2.0 11111		
section	ctor cross			
• solid	20 .	14		
stranded	20 .	14		
tightening torque with screw-type terminals	0.8	1.2 N·m		
Installation/ mounting/ dimensions				
mounting position	any			
fastening method		p-on mounting		
height	92 r			
width		5 mm		
depth	91 r			
_ ·	911	11111		
required spacing				
with side-by-side mounting	0			
— forwards	0 m			
— backwards	0 m			
— upwards	0 m			
— downwards		0 mm		
— at the side	0 m	m		
for grounded parts				
— forwards	0 m			
— backwards		0 mm		
— upwards	0 m) mm		
— at the side	0 m			
— downwards	0 m	m		
for live parts				
— forwards	0 m	m		
— backwards		0 mm		
— upwards	0 m	0 mm		
— downwards	0 m	0 mm		
— at the side		m		
Ambient conditions				
installation altitude at height above sea level n	naximum 2 00	00 m		
ambient temperature				
during operation	-25	+60 °C		
during storage		-40 +85 °C		
during transport		+85 °C		
 during transport 		100 0		
	-40			
during transport Certificates/ approvals General Product Approval	EMC	Declaration of Conformity	Test Certificates	







Miscellaneous



Special Test Certificate

Test Certificates

Marine / Shipping

other

Railway

Type Test Certificates/Test Report





Confirmation Vibration and Shock

Further information

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=3UG4622-1AW30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4622-1AW30

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

https://support.industry.siemens.com/cs/ww/en/ps/3UG4622-1AW30

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG4622-1AW30&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3UG4622-1AW30/manual

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