SIEMENS

Data sheet 3UG4622-1AW30



Digital monitoring relay Current monitoring, 22.5 mm from 0.05-10 A AC/DC 0vershoot 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 protective separation		
 between auxiliary and auxiliary circuit 	300 V	
between control and auxiliary circuit	300 V	
protection class IP	IP20	
shock resistance according to IEC 60068-2-27	sinusoidal half-wave 15g / 11 ms	
mechanical service life (operating cycles) typical	10 000 000	
electrical endurance (operating cycles) at AC-15 at 230 V typical	100 000	
thermal current of the switching element with contacts maximum	5 A	
reference code according to IEC 81346-2	K	
relative repeat accuracy	1 %	
Substance Prohibitance (Date)	05/01/2012	
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Dicyclohexyl phthalate (DCHP) - 84-61-7	
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		

	10/00
type of voltage of the supply voltage	AC/DC
supply voltage 1 at AC	
• at 50 Hz	20.4 264 V
• at 60 Hz	20.4 264 V
supply voltage 1 at DC	20.4 264 V
Measuring circuit	
type of current for monitoring	AC/DC
measurable current	0.05 15 A
measurable line frequency	40 500 Hz
adjustable current response value current	
• 1	0.05 10 A
• 2	0.05 10 A
adjustable response delay time	0.1 20 s
when starting with lower or upper limit violation	0.1 20 s
with lower or upper limit violation adjustable switching hysteresis for measured current value	10 5 000 mA
buffering time in the event of power failure minimum	10 ms
·	+/-1 digit
accuracy of digital display 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
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 output relay	4 A
Electromagnetic compatibility	
conducted interference	
 due to burst according to IEC 61000-4-4 	2 kV
due to conductor-earth surge according to IEC 61000-4-5	2 kV
• due to conductor-conductor surge according to IEC 61000-4-5	1 kV
field-based interference according to IEC 61000-4-3	10 V/m
electrostatic discharge according 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 circuits	Yes
Connections/ Terminals	V
product component removable terminal for main circuit product component removable terminal for auxiliary and control circuit	Yes Yes
type of electrical connection • for main current circuit	screw-type terminals
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void 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) 1x (0.5 2	 for auxiliary and control circuit 	screw-type terminals
• 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 cables standed 2x (20 14) • for AWG cables stranded 2x (20 14) • for AWG cables stranded 2x (20 14) • for AWG cables stranded 0.5 4 mm² • for awd to core end processing 0.5 2.5 mm² • for awd to core end processing 0.5 2.5 mm² • for awd to core end processing 0.5 2.5 mm² • stranded 20 14 • st		oren gertaman
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• during storage -40 +85 °C	ambient temperature	
	 during operation 	-25 +60 °C
	during storage	-40 +85 °C
◆ during transport ←40 +85 °C	 during transport 	-40 +85 °C
Approvals Certificates	Approvals Certificates	

General Product Approval





Confirmation







EMV Test Certificates Marine / Shipping



<u>KC</u>

Type Test Certificates/Test Report

Special Test Certificate





other Environment

Environmental Con-Confirmation

firmations

Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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

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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