SIEMENS

product brand name

Data sheet 3UG4622-1AW30

SIRIUS



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 designation product type designation General technical data product function design of the display insulation voltage for overvoltage category III according to IEC 60664 • with degree of pollution 3 rated value Current monitoring relay LCD LCD	
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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	
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 Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Dicyclohexylphthalat (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	
• overcurrent detection DC Yes	
• undercurrent detection DC Yes	
• current window recognition DC Yes	
• voltage window recognition 1 phase	
• voltage window recognition 3 phase	
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	
● 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
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
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	V
between input and output	Yes
between the outputs between the veltage guaphy and other circuits.	Yes
between the voltage supply and other circuits Connections/ Terminals	Yes
product component removable terminal for main circuit	Yes
product component removable terminal for auxiliary and control circuit	Yes
type of electrical connection • for main current circuit	screw-type terminals

for auxiliary and control circuit	screw-type terminals		
type of connectable conductor cross-sections			
• 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 solid	2x (20 14)		
for AWG cables stranded	2x (20 14)		
connectable conductor cross-section			
• solid	0.5 4 mm²		
 finely stranded with core end processing 	0.5 2.5 mm²		
AWG number as coded connectable conductor cross section			
• 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	snap-on mounting		
height	92 mm		
width	22.5 mm		
depth	91 mm		
required spacing			
with side-by-side mounting			
— forwards	0 mm		
— backwards	0 mm		
— upwards	0 mm		
— downwards	0 mm		
— at the side	0 mm		
for grounded parts			
— forwards	0 mm		
— backwards	0 mm		
— upwards	0 mm		
— at the side	0 mm		
— downwards	0 mm		
• for live parts	·		
— forwards	0 mm		
— backwards	0 mm		
— upwards	0 mm		
— downwards	0 mm		
— at the side	0 mm		
Ambient conditions	V 111111		
installation altitude at height above sea level maximum	2 000 m		
ambient temperature	2 000 III		
during operation	-25 +60 °C		
during operation during storage	-25 +60 °C -40 +85 °C		
	-40 +85 °C		
during transport Approvals Certificates	-40 +00 C		
Approvais Certificates			B 1 " 12
General Product Approval		EMC	Declaration of Conformity

Confirmation

Declaration of Conformity	Test Certificates		Marine / Shipping	other
	Type Test Certificates/Test Report	Special Test Certific- ate		Confirmation

Railway

Vibration and Shock

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

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

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

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3UG4622-1AW30}$

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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