## **SIEMENS**

Data sheet 3UG4622-2AW30



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 spring-type connection system

Figure similar

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			
<ul> <li>between auxiliary and auxiliary circuit</li> </ul>	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 (switching 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		
Product Function			
product function			
<ul> <li>overcurrent detection 1 phase</li> </ul>	Yes		
<ul> <li>overcurrent detection 3 phase</li> </ul>	No		
<ul> <li>undercurrent detection 1 phase</li> </ul>	Yes		
<ul> <li>undercurrent detection 3 phases</li> </ul>	No		
<ul> <li>overcurrent detection DC</li> </ul>	Yes		
<ul> <li>undercurrent detection DC</li> </ul>	Yes		
<ul> <li>current window recognition DC</li> </ul>	Yes		
<ul> <li>voltage window recognition 1 phase</li> </ul>	No		
<ul> <li>voltage window recognition 3 phase</li> </ul>	No		
<ul> <li>adjustable open/closed-circuit current principle</li> </ul>	Yes		
<ul> <li>external reset</li> </ul>	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	
when starting	0.1 20 s
with lower or upper limit violation	0.1 20 s
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	2.4
• at 250 V at 50/60 Hz	3 A
at 400 V at 50/60 Hz  ampacity of the output relay at DC-13	3 A
ampacity of the output relay at DC-13  ● at 24 ∨	1 A
• at 24 V • at 125 V	1 A 0.2 A
• at 125 V • at 250 V	0.2 A 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
<ul> <li>due to conductor-conductor surge acc. to IEC 61000-4-5</li> </ul>	1 kV
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 circuits	Yes
Connections/ Terminals	
product component removable terminal for main circuit	Yes

	_		
product component removable terminal for auxiliary and control circuit	Yes		
type of electrical connection			
<ul> <li>for main current circuit</li> </ul>	spring-loaded terminals		
<ul> <li>for auxiliary and control circuit</li> </ul>	spring-loaded terminals		
type of connectable conductor cross-sections			
• solid	2x (0.25 1.5 mm²)		
<ul> <li>finely stranded with core end processing</li> </ul>	2 x (0.25 1.5 mm²)		
<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.25 1.5 mm²)		
<ul> <li>at AWG cables solid</li> </ul>	2x (24 16)		
<ul> <li>at AWG cables stranded</li> </ul>	2x (24 16)		
connectable conductor cross-section			
• solid	0.25 1.5 mm²		
<ul> <li>finely stranded with core end processing</li> </ul>	0.25 1.5 mm²		
finely stranded without core end processing	0.25 1.5 mm <sup>2</sup>		
AWG number as coded connectable conductor cross section			
• solid	24 16		
<ul><li>stranded</li></ul>	24 16		
Installation/ mounting/ dimensions			
mounting position	any		
fastening method	snap-on mounting		
height	94 mm		
width	22.5 mm		
depth	91 mm		
required spacing	0111111		
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	OTHILL		
— forwards	0 mm		
— lorwards — backwards	0 mm 0 mm		
	0 mm 0 mm		
— upwards			
— downwards	0 mm		
— at the side	0 mm		
Ambient conditions			
installation altitude at height above sea level maximum	2 000 m		
ambient temperature	05 .0000		
during operation	-25 +60 °C		
during storage	-40 +85 °C		
during transport	-40 +85 °C		
Certificates/ approvals			
General Product Approval		EMC	Declaration of Conformity



Confirmation









Test Certificates Marine / Shipping other Railway

Type Test Certificates/Test Report

Special Test Certificate





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=3UG4622-2AW30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4622-2AW30

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

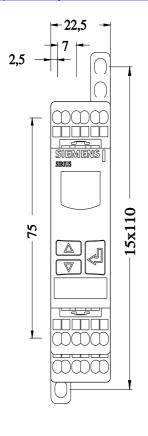
https://support.industry.siemens.com/cs/ww/en/ps/3UG4622-2AW30

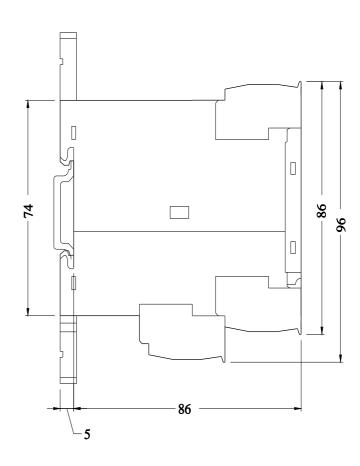
 $Image\ database\ (product\ images, 2D\ dimension\ drawings, 3D\ models, device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$ 

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3UG4622-2AW30&lang=en

**Characteristic: Derating** 

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