## **SIEMENS**

Data sheet 3UG4631-2AW30



Digital monitoring relay Voltage monitoring, 22.5 mm from 0.1-60 V AC/DC 0vershoot and undershoot 24 to 240 V AC/DC 50 to 60 Hz DC and AC Noise pulses delay 0.1 to 20 s Hysteresis 0.1 to 30 V 1 change-over contact with or without fault buffer spring-type connection system

product brand name	SIRIUS		
product designation	Voltage monitoring relay with digital setting		
product type designation	3UG4		
General technical data			
product function	Voltage monitoring relay		
design of the display	LCD		
insulation voltage for overvoltage category III according to IEC 60664			
<ul> <li>with degree of pollution 3 rated value</li> </ul>	690 V		
type of voltage			
• for monitoring	AC/DC		
<ul> <li>of the control supply voltage</li> </ul>	AC/DC		
surge voltage resistance rated value	4 kV		
maximum permissible voltage for protective separation			
<ul> <li>between auxiliary and auxiliary circuit</li> </ul>	300 V		
<ul> <li>between control and auxiliary circuit</li> </ul>	300 V		
protection class IP	IP20		
shock resistance according to IEC 60068-2-27	sinusoidal half-wave 15g / 11 ms		
vibration resistance according 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 (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	К		
relative repeat accuracy	1 %		
Substance Prohibitance (Date)	05/01/2012		
Product Function			
product function			
<ul> <li>undervoltage detection</li> </ul>	Yes		
<ul> <li>overvoltage detection</li> </ul>	Yes		
<ul> <li>overvoltage detection 1 phase</li> </ul>	Yes		
<ul> <li>overvoltage detection 3 phase</li> </ul>	No		
<ul> <li>overvoltage detection DC</li> </ul>	Yes		
<ul> <li>undervoltage detection 1 phase</li> </ul>	Yes		
<ul> <li>undervoltage detection 3 phases</li> </ul>	No		
<ul> <li>undervoltage detection DC</li> </ul>	Yes		
<ul> <li>voltage window recognition 1 phase</li> </ul>	Yes		
<ul> <li>voltage window recognition 3 phase</li> </ul>	No		
<ul> <li>voltage window recognition DC</li> </ul>	Yes		
<ul> <li>adjustable open/closed-circuit current principle</li> </ul>	Yes		

external reset	Yes
auto-RESET	Yes
Control circuit/ Control	
control supply voltage at AC	
• at 50 Hz rated value	24 240 V
at 60 Hz rated value	24 240 V
control supply voltage at DC	
• rated value	24 240 V
operating range factor control supply voltage rated value at DC	
● initial value	0.85
full-scale value	1.1
operating range factor control supply voltage rated value at AC at 50 Hz	
• initial value	0.85
full-scale value	1.1
operating range factor control supply voltage rated value at AC at 60 Hz	
• initial value	0.85
full-scale value	1.1
Measuring circuit	
measurable line frequency	40 500 Hz
measurable voltage at AC	0.1 60 V
measurable voltage at DC	0.1 60 V
adjustable response delay time	
with lower or upper limit violation	0.1 20 s
accuracy of digital display	+/-1 digit
relative temperature-related measurement deviation	0.1 %
Precision	
relative metering precision	5 %
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  Main circuit	5 000 1/h
	1
number of poles for main current circuit ampacity of the output relay at AC-15 at 400 V at 50/60 Hz	1 3 A
ampacity of the output relay at AC-15 at 400 V at 50/60 HZ	VA
• at 24 V	1 A
• at 125 V	0.2 A
• at 250 V	0.1 A
operational current at 17 V minimum	5 mA
continuous current of the DIAZED fuse link of the output	4 A
relay	
Electromagnetic compatibility	
conducted interference	
<ul> <li>due to burst according to IEC 61000-4-4</li> </ul>	2 kV
<ul> <li>due to conductor-earth surge according to IEC 61000-4-5</li> </ul>	2 kV
<ul> <li>due to conductor-conductor surge according to IEC 61000-4-5</li> </ul>	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	
<ul> <li>between input and output</li> </ul>	Yes
<ul> <li>between the outputs</li> </ul>	Yes
between the voltage supply and other circuits	Yes
Connections/ Terminals	
product component removable terminal for auxiliary and control circuit	Yes

type of electrical connection	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)		
finely stranded without core end processing	2x (0.25 1.5 mm²)		
for AWG cables solid	2x (24 16)		
<ul> <li>for 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 mm²		
AWG number as coded connectable conductor cross section			
• solid	24 16		
• stranded	24 16		
nstallation/ mounting/ dimensions			
mounting position	any		
fastening method	snap-on mounting		
height	94 mm		
width	22.5 mm		
depth	91 mm		
required spacing			
<ul> <li>with side-by-side mounting</li> </ul>			
— forwards	0 mm		
— backwards	0 mm		
— upwards	0 mm		
— downwards	0 mm		
— at the side	0 mm		
<ul> <li>for grounded parts</li> </ul>			
— 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		
— at the side	0 mm		
Ambient conditions			
installation altitude at height above sea level maximum	2 000 m		
ambient temperature			
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









Declaration of Conformity

**Test Certificates** 

Marine / Shipping

other

CE EG-Konf. Special Test Certificate

Type Test Certificates/Test Report





Confirmation

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=3UG4631-2AW30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4631-2AW30

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

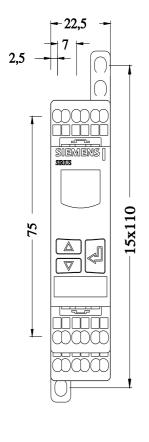
https://support.industry.siemens.com/cs/ww/en/ps/3UG4631-2AW30

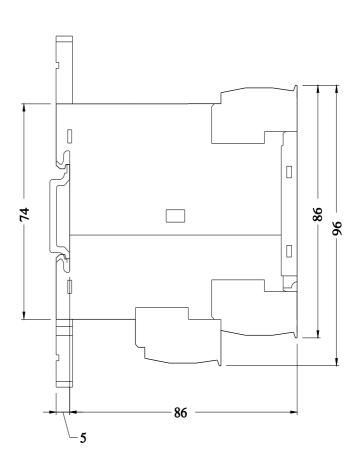
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3UG4631-2AW30&lang=en

**Characteristic: Derating** 

https://support.industry.siemens.com/cs/ww/en/ps/3UG4631-2AW30/manual





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