## **SIEMENS**

product brand name

Data sheet 3UG4632-1AW30

SIRIUS



Digital monitoring relay Voltage monitoring, 22.5 mm from 10 to 600 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 300 V 1 change-over contact with or without fault buffer screw terminal Successor product for 3UG3532-1AL20, 3UG3532-1AG20

product brand name	SINIUS		
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	K		
relative repeat accuracy	1 %		
Substance Prohibitance (Date)	05/01/2012		
Product Function			
product function			
undervoltage detection	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		
overvoltage detection DC	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	10 600 V
measurable voltage at DC	10 600 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	5 000 1/h
Main circuit	
number of poles for main current circuit	1
ampacity of the output relay at AC-15 at 400 V at 50/60 Hz	3 A
ampacity of the output relay at DC-13	1.0
• at 24 V	1 A
• at 125 V	0.2 A 0.1 A
at 250 V  operational current at 17 V minimum	5 mA
continuous current at 17 v minimum	5 MA 4 A
relay	7/1
Electromagnetic compatibility	
conducted interference	
<ul> <li>due to burst according to IEC 61000-4-4</li> </ul>	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	
<ul> <li>between input and output</li> </ul>	Yes
<ul> <li>between the outputs</li> </ul>	Yes
<ul> <li>between the voltage supply and other circuits</li> </ul>	Yes
Connections/ Terminals	
product component removable terminal for auxiliary and	Yes
control circuit	

type of electrical connection	screw-type terminals			
type of connectable conductor cross-sections				
• solid	1x (0.5 4 mm2), 2x (0.5 2.5 mm2)	1x (0.5 4 mm2), 2x (0.5 2.5 mm2)		
<ul> <li>finely stranded with core end processing</li> </ul>	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			
<ul> <li>finely stranded with core end processing</li> </ul>	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	1.2 0.8 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				
<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	0 7070			
— forwards	0 mm			
<ul><li>backwards</li><li>upwards</li></ul>	0 mm			
— upwards — at the side	0 mm 0 mm			
- at the side  Ambient conditions	O IIIIII			
installation altitude at height above sea level maximum	2 000 m			
ambient temperature	2 000 111			
during operation	-25 +60 °C			
during operation     during storage	-40 +85 °C			
during storage     during transport	-40 +85 °C			
Certificates/ approvals	10 100 0			
General Product Approval	EMC	Declaration of Conformity		

Confirmation











Declaration of Conformity

Test Certificates

Marine / Shipping

other



Special Test Certificate

Type Test Certificates/Test Report





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=3UG4632-1AW30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4632-1AW30

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3UG4632-1AW30

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3UG4632-1AW30&lang=en

**Characteristic: Derating** 

https://support.industry.siemens.com/cs/ww/en/ps/3UG4632-1AW30/manual