## **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	31/103			
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				
<ul> <li>for monitoring</li> </ul>	AC/DC			
<ul> <li>of the control supply voltage</li> </ul>	AC/DC			
surge voltage resistance rated value	4 kV			
maximum permissible voltage for safe isolation				
<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 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>undervoltage detection</li> </ul>	Yes			
overvoltage detection	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			
undervoltage detection DC	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			

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adjustable open/closed-circuit current principle     ovternal reset	Yes		
external reset     auto-RESET	Yes		
	Yes		
Control circuit/ Control			
control supply voltage at AC	24 240 //		
at 50 Hz rated value     at 60 Hz rated value	24 240 V 24 240 V		
control supply voltage at DC	24 240 V		
• rated value	24 240 V		
operating range factor control supply voltage rated	27 270 V		
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 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		
operational current at 17 V minimum	5 mA		
continuous current of the DIAZED fuse link of the output relay	4 A		
Electromagnetic compatibility			
conducted interference			
<ul><li>due to burst acc. to IEC 61000-4-4</li></ul>	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			
<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	screw-type terminals		
type of connectable conductor cross-sections			
• solid	1x (0.5 4 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)			
at AWG cables solid		0 14)	,			
at AWG cables stranded	•	0 14)				
connectable conductor cross-section	- `	,				
• solid	0.5	. 4 mm²				
finely stranded with core end processing		. 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 m	m				
width	22.5	mm				
depth	91 m	m				
required spacing						
<ul><li>with side-by-side mounting</li></ul>						
— forwards	0 mn	ı				
— backwards	0 mn	ı				
— upwards	0 mn	า				
— downwards	0 mn	n				
— at the side	0 mm					
<ul> <li>for grounded parts</li> </ul>						
— forwards	0 mn	ı				
— backwards	0 mn	า				
— upwards	0 mn	า				
— at the side	0 mn	า				
— downwards	0 mn	ı				
for live parts						
— forwards	0 mn	า				
— backwards	0 mn	า				
— upwards	0 mn	n				
— at the side	0 mn	า				
Ambient conditions						
installation altitude at height above sea level maximum	2 000	) m				
ambient temperature						
<ul> <li>during operation</li> </ul>	-25 .	+60 °C				
during storage	-40 .	+85 °C				
<ul> <li>during transport</li> </ul>	-40 .	+85 °C				
Certificates/ approvals						
General Product Approval		EMC	Declaration of Conformity	Test Certificates		











Special Test Certificate

Test Certificates M

Marine / Shipping

other

Railway

Type Test Certificates/Test Report





Confirmation

Vibration and Shock

Further information

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)
<a href="https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3UG4632-1AW30">https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3UG4632-1AW30</a>

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, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3UG4632-1AW30&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3UG4632-1AW30&lang=en</a>

**Characteristic: Derating** 

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

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