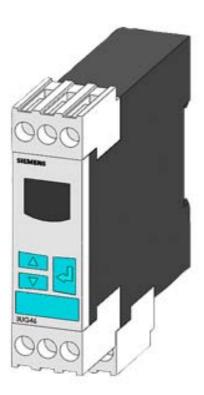
# **SIEMENS**

## Data sheet

# 3UG4632-1AW30



DIGITAL MONITORING RELAY VOLTAGE MONITORING, 22.5MM FROM 10 TO 600V AC/DC OVERSHOOT AND UNDERSHOOT AC/DC 24 TO 240V DC AND AC 50 TO 60 HZ SPIKE DELAY 0.1 TO 20S HYSTERESIS 0.1 TO 300V 1 CHANGEOVER CONTACT W. OR W/O ERROR LOG SCREW TERMINAL REPLACEMENT PRODUCT F. 3UG3532-1AL20, 3UG3532-1AG20

Product function		Voltage monitoring relay	
Measuring circuit:			
Type of voltage for monitoring		AC/DC	
Number of poles for main current circuit		1	
Measurable line frequency	Hz	500 40	
Measurable voltage at AC	V	10 600	
Adjustable voltage range	V	10 600	
Adjustable response delay time			
<ul> <li>with lower or upper limit violation</li> </ul>	s	0.1 20	
Response time maximum	ms	450	
Relative metering precision	%	5	
Accuracy of digital display	_	+/-1 digit	
Relative temperature-related measurement deviation	%	0.1	
Relative repeat accuracy	%	1	
General technical data:			
Design of the display			

General technical data:		
Design of the display	LCD	
Product function		
<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>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	
External reset		Yes	
Auto-reset		Yes	
<ul> <li>Adjustable open/closed-circuit current principle</li> </ul>		Yes	
Startup time after the control supply voltage has been applied	ms	1 000	
Type of voltage of the control supply voltage	_	AC/DC	
Control supply voltage	-		
• at AC			
— at 50 Hz Rated value	V	24 240	
— at 60 Hz Rated value	V	24 240	
<ul> <li>at DC Rated value</li> </ul>	V	24 240	
Operating range factor control supply voltage rated	_		
value			
• at AC			
— at 50 Hz		0.85 1.1	
— at 60 Hz		0.85 1.1	
• at DC		0.85 1.1	
Surge voltage resistance Rated value	kV	4	
Active power consumption	W	2	
Protection class IP		IP20	
Electromagnetic compatibility		IEC 60947-1 / IEC 61000-6-2 / IEC 61000-6-4	
Vibration resistance acc. to IEC 60068-2-6		1 6 Hz: 15 mm, 6 500 Hz: 2g	
Shock resistance acc. to IEC 60068-2-27	_	sinusoidal half-wave 15g / 11 ms	
Installation altitude at height above sea level maximum	m	2 000	
maximum permissible voltage for safe isolation	_		
	V	300	
<ul> <li>between control and auxiliary circuit</li> <li>between auxiliary and auxiliary circuit</li> </ul>	V	300	
Conducted interference due to burst acc. to IEC	V	2 kV	
61000-4-4			
Conducted interference due to conductor-earth surge acc. to IEC 61000-4-5		2 kV	
Conducted interference due to conductor-conductor surge acc. to IEC 61000-4-5		1 kV	
-			
Electrostatic discharge acc. to IEC 61000-4-2	_	6 kV contact discharge / 8 kV air discharge	



Insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 Rated value	V	690
Ambient temperature		
<ul> <li>during operation</li> </ul>	°C	-25 +60
during storage	°C	-40 +85
<ul> <li>during transport</li> </ul>	°C	-40 +85
Design of the electrical isolation		Safe isolation
Galvanic isolation		
<ul> <li>between entrance and outlet</li> </ul>		Yes
<ul> <li>between the outputs</li> </ul>		Yes
<ul> <li>between the voltage supply and other circuits</li> </ul>		Yes
Mechanical service life (switching cycles) typical		10 000 000
Electrical endurance (switching cycles) at AC-15 at 230 V typical		100 000
Operating frequency with 3RT2 contactor maximum	1/h	5 000

/lechanical data:			
Width	mm	22.5	
Height	mm	92	
Depth	mm	91	
mounting position		any	
Required spacing for grounded parts			
● forwards	mm	0	
Backwards	mm	0	
• at the side	mm	0	
• upwards	mm	0	
• downwards	mm	0	
Required spacing with side-by-side mounting	-		
• forwards	mm	0	
Backwards	mm	0	
• at the side	mm	0	
• upwards	mm	0	
• downwards	mm	0	
Required spacing for live parts			
• forwards	mm	0	
Backwards	mm	0	
• at the side	mm	0	
• upwards	mm	0	
Mounting type		snap-on mounting	
Product function removable terminal for auxiliary and control circuit		Yes	
Type of electrical connection		screw-type terminals	



Type of connectable conductor cross-section		
• solid		1x (0.5 4 mm2), 2x (0.5 2.5 mm2)
<ul> <li>finely stranded</li> </ul>		
- with core end processing		1x (0.5 2.5 mm2), 2x (0.5 1.5 mm2)
<ul> <li>for AWG conductors</li> </ul>		
— solid		2x (20 14)
— stranded		2x (20 14)
Tightening torque with screw-type terminals	N∙m	1.2 0.8

Outputs:		
Number of NO contacts delayed switching		0
Number of NC contacts delayed switching		0
Number of CO contacts delayed switching		1
Operating current at 17 V minimum	mA	5
Continuous current of the DIAZED fuse link of the output relay	A	4
Thermal current of the switching element with contacts maximum	A	5

# Certificates/ approvals: General Product Approval EMC Declaration of Conformity Test Certificates Image: Ccc Image: Cccc Image: Ccc Image: Ccc <

Test Certificates	Shipping A	pproval		other	
spezielle Prüfbescheinigunge <u>n</u>	<b>ĴÅ</b> DNV	GL	Lloyd's Register	sonstig	
	DNV	GL	LRS		

## Further information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system) http://www.siemens.com/industrymall

### Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG46321AW30

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3UG46321AW30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3UG46321AW30&lang=en



