## **SIEMENS**

Data sheet

## 3UG4632-2AW30

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 1 CHANGEOVER CONTACT W. OR W/O ERROR LOG SPRING-LOADED TYPE Voltage monitoring relay

Product function	
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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 with 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	

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
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
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	_	
• with AC		
— at 50 Hz Rated value	V	24 240
	V	24 240
— at 60 Hz Rated value	V	24 240
for DC Rated value	V	24 240
Operating range factor control supply voltage rated value		
• with AC		
— at 50 Hz		0.85 1.1
— at 60 Hz		0.85 1.1
• for 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	_	
<ul> <li>between control and auxiliary circuit</li> </ul>	V	300
<ul> <li>between auxiliary and auxiliary circuit</li> </ul>	V	300
Conducted interference due to burst acc. to IEC 61000-4-4		2 KV
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
Field-bound parasitic coupling acc. to IEC 61000-4-3	-	10 V/m
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
• during transport	°C	-40 +85
Design of the electrical isolation		Safe isolation
Galvanic isolation		
<ul> <li>between entrance and outlet</li> </ul>		Yes
• between the outputs		Yes
<ul> <li>between the voltage supply and other circuits</li> </ul>		
Sources and tolkage supply and other birould		Yes

Electrical endurance (switching cycles) at AC-15 at 230 V typical		100 000
Operating frequency with 3RT2 contactor maximum	1/h	5 000
Mechanical data:		
Width	mm	22.5
Height	mm	94
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		Yes
control circuit		
Type of electrical connection		spring-loaded terminals
Type of connectable conductor cross-section	-	
• solid		2x (0.25 1.5 mm²)
<ul> <li>finely stranded</li> </ul>		
— with core end processing		2 x (0.25 1.5 mm²)
— without core end processing		2x (0.25 1.5 mm²)
• for AWG conductors		
— solid		2x (24 16)
— stranded		2x (24 16)
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 Thermal current of the switching element with contacts maximum	A	4 5
Certificates/ approvals:		

General Proc	duct Approval	EMC	Test Certificates	S
	EHC	C-TICK	Special Test Certificate	Type Test Certificates/Test Report

Shipping Approval			other	other		
ĴÅ DNV	GL	Lloyd's Register	Declaration of Conformity	other		
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=3UG46322AW30

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3UG46322AW30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3UG46322AW30&lang=en

