## **SIEMENS**

## Data sheet

## 3UG4631-1AW30



DIGITAL MONITORING RELAY VOLTAGE MONITORING, 22.5MM FROM 0.1 TO 60V 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 30V 1 CHANGEOVER CONTACT W. OR W/O ERROR LOG SCREW TERMINAL REPLACEMENT PRODUCT F. 3UG3531-1AL20, 3UG3531-1AG20

## Figure similar

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	0.1 60
Adjustable voltage range	V	0.1 60
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		LCD
Product function		

<ul> <li>Voltage window recognition 1 phase</li> </ul>		Yes
Voltage window recognition 1 phase     Voltage window recognition 3 phase		No
Voltage window recognition 5 phase     Voltage window recognition DC		Yes
Overvoltage detection 1 phase		Yes
		No
Overvoltage detection 3 phase		Yes
Overvoltage detection DC		Yes
undervoltage detection 1 phase		No
undervoltage detection 3 phases		
undervoltage detection DC		Yes
External reset		Yes
Auto-reset		Yes
Adjustable open/closed-circuit current principle		Yes
Starting time after the control supply voltage has	ms	1 000
been applied Type of voltage of the control supply voltage		AC/DC
Control supply voltage		ACIDO
• at AC		
— at 50 Hz rated value	V	24 240
— at 60 Hz rated value	v	24 240
at DC rated value	V	24 240
• at DC rated value Operating range factor control supply voltage rated	V	24 240
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
Consumed active power	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	m	2 000
maximum		
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		2 kV
61000-4-4		014
Conducted interference due to conductor-earth surge acc. to IEC 61000-4-5		2 kV
Conducted interference due to conductor-conductor		1 kV
surge acc. to IEC 61000-4-5		
-		

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			
• during operation	°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	
<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	
Mechanical data:			
Width	mm	22.5	
Height	mm	92	
Donth	mm	01	

<b>WIGUI</b>		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-sections		
• 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>at 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	А	4

А

FAL

other

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4631-1AW30

Confirmation

5

**Declaration of** 

Conformity

EG-Konf.

Test

Certificates Type Test

Certificates/Test Report

EMC

C-Tick

Railway

Vibration and Shock

output relay

Test

Certificates

**Special Test** 

Certificate

Cax online generator

contacts maximum

Certificates/ approvals:

**General Product Approval** 

Thermal current of the switching element with

Shipping

Approval

LRS

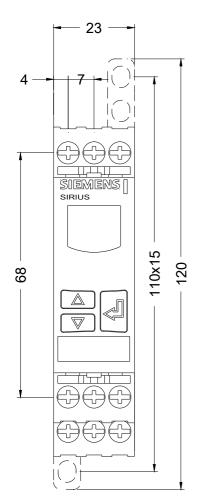
Information- and Downloadcenter (Catalogs, Brochures,...)

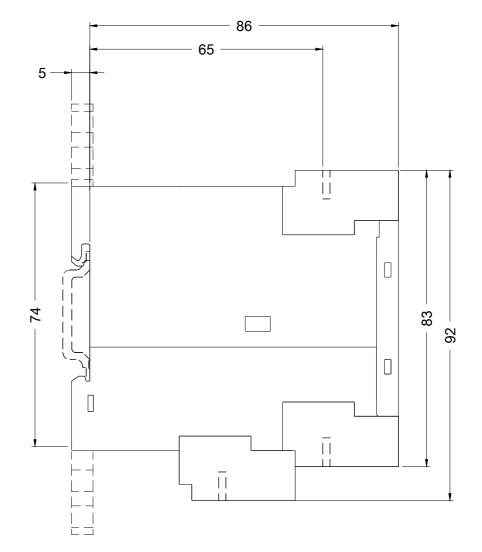
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3UG4631-1AW30

http://www.siemens.com/industrial-controls/catalogs

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







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