



DIGITAL MONITORING RELAY VOLTAGE MONITORING, 22.5MM FROM 17 TO 275V AC/DC OVERSHOOT AND UNDERSHOOT INTERNAL POWER SUPPLY DC AND AC 50 TO 60 HZ SPIKE DELAY 0.1 TO 20S HYSTERESIS 0.1 TO 150V 1 CHANGEOVER CONTACT W. OR W/O ERROR LOG SCREW TERMINAL REPLACEMENT PRODUCT F. 3UG3534, 3UG3535

Figure similar

<b>Product function</b>		Voltage monitoring relay
<b>Measuring circuit:</b>		
<b>Type of voltage for monitoring</b>		AC/DC
<b>Number of poles for main current circuit</b>		1
<b>Measurable line frequency</b>	Hz	500 ... 40
<b>Measurable voltage at AC</b>	V	17 ... 275
<b>Adjustable voltage range</b>	V	17 ... 275
<b>Adjustable response delay time</b>		
• when starting	s	0.1 ... 20
• with lower or upper limit violation	s	0.1 ... 20
<b>Response time maximum</b>	ms	450
<b>Relative metering precision</b>	%	5
<b>Accuracy of digital display</b>		+/-1 digit
<b>Relative temperature-related measurement deviation</b>	%	0.1
<b>Relative repeat accuracy</b>	%	1
<b>General technical data:</b>		
<b>Design of the display</b>		LCD
<b>Product function</b>		
• Voltage window recognition 1 phase		Yes

<ul style="list-style-type: none"> <li>• Voltage window recognition 3 phase</li> <li>• Voltage window recognition DC</li> <li>• Overvoltage detection 1 phase</li> <li>• Overvoltage detection 3 phase</li> <li>• Overvoltage detection DC</li> <li>• undervoltage detection 1 phase</li> <li>• undervoltage detection 3 phases</li> <li>• undervoltage detection DC</li> <li>• External reset</li> <li>• Auto-reset</li> <li>• Adjustable open/closed-circuit current principle</li> </ul>		<p>No</p> <p>Yes</p> <p>Yes</p> <p>No</p> <p>Yes</p> <p>Yes</p> <p>No</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>
<b>Startup time after the control supply voltage has been applied</b>	ms	1 000
<b>Type of voltage of the control supply voltage</b>		AC/DC
<b>Control supply voltage</b>		
<ul style="list-style-type: none"> <li>• at AC <ul style="list-style-type: none"> <li>— at 50 Hz rated value</li> <li>— at 60 Hz rated value</li> </ul> </li> <li>• at DC rated value</li> </ul>	<p>V</p> <p>V</p> <p>V</p>	<p>17 ... 275</p> <p>17 ... 275</p> <p>17 ... 275</p>
<b>Operating range factor control supply voltage rated value</b>		
<ul style="list-style-type: none"> <li>• at AC <ul style="list-style-type: none"> <li>— at 50 Hz</li> <li>— at 60 Hz</li> </ul> </li> <li>• at DC</li> </ul>		<p>1 ... 1</p> <p>1 ... 1</p> <p>1 ... 1</p>
<b>Surge voltage resistance rated value</b>	kV	4
<b>Active power consumption</b>	W	2
<b>Protection class IP</b>		IP20
<b>Electromagnetic compatibility</b>		IEC 60947-1 / IEC 61000-6-2 / IEC 61000-6-4
<b>Vibration resistance acc. to IEC 60068-2-6</b>		1 ... 6 Hz: 15 mm, 6 ... 500 Hz: 2g
<b>Shock resistance acc. to IEC 60068-2-27</b>		sinusoidal half-wave 15g / 11 ms
<b>Installation altitude at height above sea level maximum</b>	m	2 000
<b>maximum permissible voltage for safe isolation</b>		
<ul style="list-style-type: none"> <li>• between control and auxiliary circuit</li> <li>• between auxiliary and auxiliary circuit</li> </ul>	<p>V</p> <p>V</p>	<p>300</p> <p>300</p>
<b>Conducted interference due to burst acc. to IEC 61000-4-4</b>		2 kV
<b>Conducted interference due to conductor-earth surge acc. to IEC 61000-4-5</b>		2 kV
<b>Conducted interference due to conductor-conductor surge acc. to IEC 61000-4-5</b>		1 kV
<b>Electrostatic discharge acc. to IEC 61000-4-2</b>		6 kV contact discharge / 8 kV air discharge

<b>Field-bound parasitic coupling acc. to IEC 61000-4-3</b>		10 V/m
<b>Insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value</b>	V	690
<b>Ambient temperature</b>		
• during operation	°C	-25 ... +60
• during storage	°C	-40 ... +85
• during transport	°C	-40 ... +85
<b>Design of the electrical isolation</b>		Safe isolation
<b>Galvanic isolation</b>		
• between entrance and outlet		Yes
• between the outputs		Yes
• between the voltage supply and other circuits		No
<b>Mechanical service life (switching cycles) typical</b>		10 000 000
<b>Electrical endurance (switching cycles) at AC-15 at 230 V typical</b>		100 000
<b>Operating frequency with 3RT2 contactor maximum</b>	1/h	5 000






<b>Mechanical data:</b>		
<b>Width</b>	mm	22.5
<b>Height</b>	mm	92
<b>Depth</b>	mm	91
<b>Mounting position</b>		any
<b>Required spacing for grounded parts</b>		
• forwards	mm	0
• Backwards	mm	0
• at the side	mm	0
• upwards	mm	0
• downwards	mm	0
<b>Required spacing with side-by-side mounting</b>		
• forwards	mm	0
• Backwards	mm	0
• at the side	mm	0
• upwards	mm	0
• downwards	mm	0
<b>Required spacing for live parts</b>		
• forwards	mm	0
• Backwards	mm	0
• at the side	mm	0
• upwards	mm	0
<b>Mounting type</b>		snap-on mounting
<b>Product function removable terminal for auxiliary and control circuit</b>		Yes

Type of electrical connection		screw-type terminals
Type of connectable conductor cross-sections		1x (0.5 ... 4 mm <sup>2</sup> ), 2x (0.5 ... 2.5 mm <sup>2</sup> )
<ul style="list-style-type: none"> <li>• solid</li> <li>• finely stranded <ul style="list-style-type: none"> <li>— with core end processing</li> </ul> </li> <li>• at AWG conductors <ul style="list-style-type: none"> <li>— solid</li> <li>— stranded</li> </ul> </li> </ul>		1x (0.5 ... 2.5 mm <sup>2</sup> ), 2x (0.5 ... 1.5 mm <sup>2</sup> )
		2x (20 ... 14)
		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
 CCC		 UL	 C-TICK
		 EG-Konf.	<a href="#">spezielle Prüfbescheinigung</a> n

Test Certificates	Shipping Approval	other	Railway
<a href="#">Typprüfbescheinigung/Werkzeugnis</a>	 DNV	 GL	 LRS
		<a href="#">Bestätigungen</a>	<a href="#">Schwingen/Schocke</a> n

#### 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

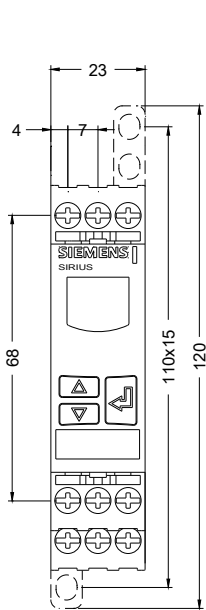
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG46331AL30>

##### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

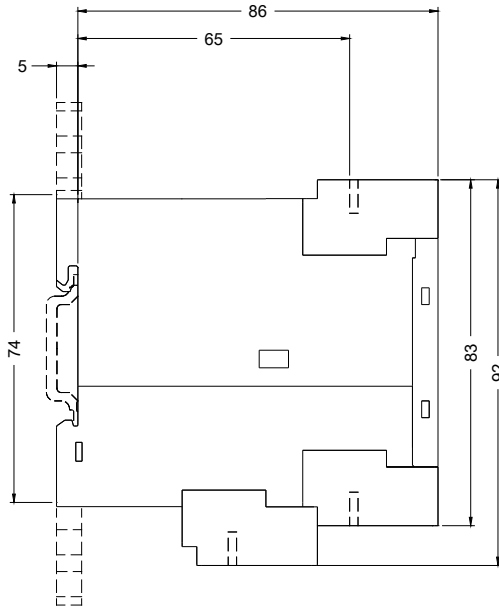
<https://support.industry.siemens.com/cs/ww/en/ps/3UG46331AL30>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3UG46331AL30&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG46331AL30&lang=en)



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