



Digital monitoring relay Current monitoring, 22.5 mm from 0.05-10 A AC/DC Overshoot and undershoot 24 to 240 V AC/DC 50 to 60 Hz DC and AC ON delay and noise pulses delay 0.1 to 20 s Hysteresis 0.01 to 5 A 1 change-over contact with or without fault buffer screw terminal Successor product for 3UG3522-1AL20, 3UG3522-1AG20 and 3UG3522-1AC48-0AA1

<b>Product function</b>		Current monitoring relay
<b>Measuring circuit:</b>		
<b>Number of poles for main current circuit</b>		1
<b>Type of current for monitoring</b>		AC/DC
<b>Measurable current</b>	A	0.05 ... 15
<b>Measurable current at AC</b>	mA	50 ... 15 000
<b>Measurable line frequency</b>	Hz	40 ... 500
<b>Adjustable pick-up value current</b>		
• 1	A	0.05 ... 10
• 2	A	0.05 ... 10
<b>Adjustable response delay time</b>		
• when starting	s	0.1 ... 20
• with lower or upper limit violation	s	0.1 ... 20
<b>Adjustable switching hysteresis for measured current value</b>	mA	10 ... 5 000
<b>Buffering time in the event of power failure minimum</b>	ms	10
<b>Operating voltage rated value</b>	V	24 ... 240
<b>Response time maximum</b>	ms	450
<b>Relative metering precision</b>	%	5

Accuracy of digital display		+/-1 digit
Relative temperature-related measurement deviation	%	5
Temperature drift per °C	%/°C	0.1
Relative repeat accuracy	%	1

#### General technical data:

Design of the display		LCD
Product function		
<ul style="list-style-type: none"> <li>• Overcurrent detection 1 phase</li> <li>• Overcurrent detection 3 phase</li> <li>• undercurrent detection 1 phase</li> <li>• undercurrent detection 3 phases</li> <li>• Overcurrent detection DC</li> <li>• undercurrent detection DC</li> <li>• Current window recognition DC</li> <li>• External reset</li> <li>• Auto-reset</li> <li>• Adjustable open/closed-circuit current principle</li> </ul>		<ul style="list-style-type: none"> <li>Yes</li> <li>No</li> <li>Yes</li> <li>No</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> </ul>
Starting time after the control supply voltage has been applied	ms	1 000
Type of voltage of the supply voltage		AC/DC
Supply voltage		
<ul style="list-style-type: none"> <li>• 1 at AC <ul style="list-style-type: none"> <li>— at 50 Hz</li> <li>— at 60 Hz</li> </ul> </li> <li>• 1 <ul style="list-style-type: none"> <li>— at DC</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>V</li> <li>V</li> <li>V</li> </ul>	<ul style="list-style-type: none"> <li>24 ... 240</li> <li>240 ... 24</li> <li>24 ... 240</li> </ul>
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 maximum	m	2 000
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