# **SIEMENS**

# Data sheet

# 3UG4621-2AW30



DIGITAL MONITORING RELAY CURRENT MONITORING, 22.5MM FROM 2 TO 500MA AC/DC OVERSHOOT AND UNDERSHOOT AC/DC 24 TO 240V DC AND AC 50 TO 60 HZ STARTUP AND INTERF. PEAK DELAY 0.1 TO 20S HYSTERESIS 0.1 TO 250MA 1 CHANGEOVER CONTACT W. OR W/O ERROR LOG SPRING-LOADED TYPE

Figure similar Product function

Current monitoring relay

Measuring circuit:		
Number of poles for main current circuit		1
Type of current for monitoring	_	AC/DC
Measurable current	А	0.003 0.6
Measurable current with AC	mA	3 600
Measurable line frequency	Hz	40 500
Adjustable response value current		
• 1	А	0.003 0.5
• 2	А	0.003 0.5
Adjustable response delay time		
<ul> <li>when starting</li> </ul>	s	0.1 20
<ul> <li>with lower or upper limit violation</li> </ul>	s	0.1 20
Adjustable switching hysteresis for measured current	mA	0.1 250
value		
Buffering time in the event of power failure minimum	ms	10
Operating voltage Rated value	V	24 240
Response time maximum	ms	450
Relative metering precision	%	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

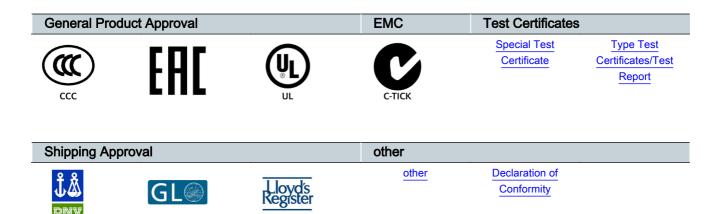
Product function		
<ul> <li>Overcurrent detection 1 phase</li> </ul>		Yes
<ul> <li>Overcurrent detection 3 phase</li> </ul>		No
<ul> <li>undercurrent detection 1 phase</li> </ul>		Yes
<ul> <li>undercurrent detection 3 phases</li> </ul>		No
<ul> <li>Overcurrent detection DC</li> </ul>		Yes
<ul> <li>undercurrent detection DC</li> </ul>		Yes
<ul> <li>Current window recognition 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	ms	1 000
applied		
Type of voltage of the supply voltage		AC/DC
Supply voltage		
• 1 with AC		
— at 50 Hz	V	24 240
— at 60 Hz	V	240 24
• 1		
— for DC	V	24 240
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
Conducted interference due to burst acc. to IEC 61000-4-4		2 kV
Conducted interference due to conductor-earth surge		2 kV
acc. to IEC 61000-4-5		
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
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
Degree of pollution		

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
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 data:			
Width	mm	22.5	
Height	mm	94	
Depth	mm	91	
mounting position		any	
Required spacing for grounded parts			
<ul> <li>forwards</li> </ul>	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	
• downwards	mm	0	
Mounting type		snap-on mounting	
Type of electrical connection	_		
<ul> <li>for auxiliary and control current circuit</li> </ul>		spring-loaded terminals	
<ul> <li>for main current circuit</li> </ul>		spring-loaded terminals	
Product function	_		
<ul> <li>removable terminal for auxiliary and control circuit</li> </ul>		Yes	
<ul> <li>removable terminal for main circuit</li> </ul>		Yes	
Type of connectable conductor cross-section			
• solid		2x (0.25 1.5 mm²)	
<ul> <li>finely stranded</li> </ul>			

<ul> <li>— with core end processing</li> </ul>		2 x (0.25 1.5 mm²)
<ul> <li>— without core end processing</li> </ul>		2x (0.25 1.5 mm²)
<ul> <li>for AWG conductors</li> </ul>		
— 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
Ampacity		
<ul> <li>of the output relay</li> </ul>		
— at AC-15		
— at 250 V at 50/60 Hz	А	3
— at 400 V at 50/60 Hz	А	3
— at DC-13		
— at 24 V	А	1
— at 125 V	А	0.2
— at 250 V	А	0.1
<ul> <li>for permanent overcurrent maximum permissible</li> </ul>	А	0.6
<ul> <li>for overcurrent duration &lt; 1 s maximum permissible</li> </ul>	А	5
Operating current at 17 V minimum	А	0.005
Continuous current of the DIAZED fuse link of the output relay	A	4
Thermal current of the switching element with contacts maximum	A	5
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

Certificates/ approvals:



### Further information

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

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

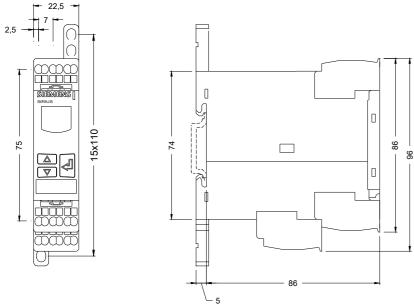
### Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG46212AW30

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Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3UG46212AW30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3UG46212AW30&lang=en



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