



Digital monitoring relay for residual current monitoring (with current transformer 3UL23) Setting range 0.03...40 A separate for warning threshold and switch-off value supply voltage 24 ... 240 V AC/DC, 50 .. 60Hz ON delay and tripping delay 0.1 to 20 s Shutdown hysteresis up to 50% Warning hysteresis 5% fixed Width 22.5 mm, 2 change-over contacts with or without fault buffer spring-type connection system

<b>product brand name</b>	SIRIUS
<b>product designation</b>	Residual current monitoring relay with digital setting
<b>product type designation</b>	3UG4
<b>General technical data</b>	
<b>product function</b>	for three-phase supplies
<b>design of the display</b>	LCD
<b>insulation voltage</b>	
• rated value	300 V
• for overvoltage category III according to IEC 60664 — with degree of pollution 3 rated value	300 V
<b>degree of pollution</b>	3
<b>type of voltage of the control supply voltage</b>	AC/DC
<b>surge voltage resistance rated value</b>	4 kV
<b>protection class IP</b>	
• of the enclosure	IP20
• of the terminal	IP20
shock resistance acc. to IEC 60068-2-27	sinusoidal half-wave 15g / 11 ms
vibration resistance acc. to IEC 60068-2-6	1 ... 6 Hz: 15 mm, 6 ... 500 Hz: 2g
mechanical service life (switching cycles) typical	10 000 000
electrical endurance (switching cycles) at AC-15 at 230 V typical	100 000
<b>thermal current of the switching element with contacts maximum</b>	5 A
<b>reference code acc. to IEC 81346-2</b>	K
<b>relative repeat accuracy</b>	1 %
<b>Substance Prohibittance (Date)</b>	14.02.2013 00:00:00
<b>Product Function</b>	
<b>product function</b>	
• residual current display	Yes
• error memory	Yes
• overcurrent detection 1 phase	Yes
• undercurrent detection 1 phase	No
• adjustable open/closed-circuit current principle	Yes
• external reset	Yes
<b>Control circuit/ Control</b>	
<b>control supply voltage at AC</b>	
• at 50 Hz rated value	24 ... 240 V
• at 60 Hz rated value	24 ... 240 V
<b>control supply voltage at DC</b>	
• rated value	24 ... 240 V

<b>operating range factor control supply voltage rated value at DC</b>	
• initial value	0.85
• full-scale value	1.1
<b>operating range factor control supply voltage rated value at AC at 50 Hz</b>	
• initial value	0.85
• full-scale value	1.1
<b>operating range factor control supply voltage rated value at AC at 60 Hz</b>	
• initial value	0.85
• full-scale value	1.1
<b>Measuring circuit</b>	
<b>type of current for monitoring</b>	AC
<b>measurable current</b>	10 mA ... 43 A
<b>measurable line frequency</b>	16 ... 400 Hz
<b>adjustable operating delay time</b>	0.1 ... 20 s
<b>adjustable current response value current</b>	
• 1	30 mA ... 40 A
• 2	30 mA ... 40 A
<b>adjustable response delay time</b>	0 ... 20 s
<b>adjustable response delay time when starting</b>	0.1 ... 20 s
<b>buffering time in the event of power failure minimum</b>	10 ms
<b>accuracy of digital display</b>	+/-1 digit
<b>Precision</b>	
<b>relative metering precision</b>	5 %
<b>temperature drift per °C</b>	0.1 %/°C
<b>Auxiliary circuit</b>	
<b>number of NC contacts for auxiliary contacts</b>	0
<b>number of NC contacts delayed switching</b>	0
<b>number of NO contacts for auxiliary contacts</b>	0
<b>number of NO contacts delayed switching</b>	0
<b>number of CO contacts</b>	
• for auxiliary contacts	2
• delayed switching	2
<b>operating frequency with 3RT2 contactor maximum</b>	5 000 1/h
<b>Main circuit</b>	
<b>type of voltage</b>	AC/DC
<b>operating voltage rated value</b>	24 ... 240 V
<b>operating frequency rated value</b>	16 ... 400 Hz
<b>Outputs</b>	
<b>ampacity of the output relay at AC-15</b>	
• at 250 V at 50/60 Hz	3 A
• at 400 V at 50/60 Hz	0 A
<b>ampacity of the output relay at DC-13</b>	
• at 24 V	1 A
• at 125 V	0.2 A
• at 250 V	0.1 A
<b>operational current at 17 V minimum</b>	5 mA
<b>continuous current of the DIAZED fuse link of the output relay</b>	4 A
<b>Electromagnetic compatibility</b>	
<b>conducted interference</b>	
• due to burst acc. to IEC 61000-4-4	2 kV
• due to conductor-earth surge acc. to IEC 61000-4-5	2 kV
• due to conductor-conductor surge acc. to IEC 61000-4-5	1 kV
<b>field-based interference acc. to IEC 61000-4-3</b>	10 V/m
<b>electrostatic discharge acc. to IEC 61000-4-2</b>	4 kV contact discharge / 8 kV air discharge
<b>Galvanic isolation</b>	

<b>design of the electrical isolation</b>	galvanic isolation		
<b>galvanic isolation</b>			
<ul style="list-style-type: none"> <li>• between input and output</li> </ul>	Yes		
<ul style="list-style-type: none"> <li>• between the outputs</li> </ul>	Yes		
<ul style="list-style-type: none"> <li>• between the voltage supply and other circuits</li> </ul>	No		
<b>Connections/ Terminals</b>			
<b>product component removable terminal for auxiliary and control circuit</b>	Yes		
<b>type of electrical connection</b>	spring-loaded terminals		
<b>type of connectable conductor cross-sections</b>			
<ul style="list-style-type: none"> <li>• solid</li> </ul>	2x (0.25 ... 1.5 mm <sup>2</sup> )		
<ul style="list-style-type: none"> <li>• finely stranded with core end processing</li> </ul>	2 x (0.25 ... 1.5 mm <sup>2</sup> )		
<ul style="list-style-type: none"> <li>• finely stranded without core end processing</li> </ul>	2x (0.25 ... 1.5 mm <sup>2</sup> )		
<ul style="list-style-type: none"> <li>• at AWG cables solid</li> </ul>	2x (24 ... 16)		
<ul style="list-style-type: none"> <li>• at AWG cables stranded</li> </ul>	2x (24 ... 16)		
<b>connectable conductor cross-section</b>			
<ul style="list-style-type: none"> <li>• solid</li> </ul>	0.25 ... 1.5 mm <sup>2</sup>		
<ul style="list-style-type: none"> <li>• finely stranded with core end processing</li> </ul>	0.25 ... 1.5 mm <sup>2</sup>		
<ul style="list-style-type: none"> <li>• finely stranded without core end processing</li> </ul>	0.25 ... 1.5 mm <sup>2</sup>		
<b>AWG number as coded connectable conductor cross section</b>			
<ul style="list-style-type: none"> <li>• solid</li> </ul>	24 ... 16		
<ul style="list-style-type: none"> <li>• stranded</li> </ul>	24 ... 16		
<b>Installation/ mounting/ dimensions</b>			
<b>mounting position</b>	any		
<b>fastening method</b>	screw and snap-on mounting onto 35 mm standard mounting rail		
<b>height</b>	103 mm		
<b>width</b>	22.5 mm		
<b>depth</b>	91 mm		
<b>required spacing</b>			
<ul style="list-style-type: none"> <li>• with side-by-side mounting <ul style="list-style-type: none"> <li>— forwards</li> <li>— backwards</li> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> </ul> </li> </ul>	0 mm		
	0 mm		
	0 mm		
	0 mm		
	0 mm		
<ul style="list-style-type: none"> <li>• for grounded parts <ul style="list-style-type: none"> <li>— forwards</li> <li>— backwards</li> <li>— upwards</li> <li>— at the side</li> <li>— downwards</li> </ul> </li> </ul>	0 mm		
	0 mm		
	0 mm		
	0 mm		
	0 mm		
<ul style="list-style-type: none"> <li>• for live parts <ul style="list-style-type: none"> <li>— forwards</li> <li>— backwards</li> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> </ul> </li> </ul>	0 mm		
	0 mm		
	0 mm		
	0 mm		
	0 mm		
	0 mm		
<b>Ambient conditions</b>			
installation altitude at height above sea level maximum	2 000 m		
<b>ambient temperature</b>			
<ul style="list-style-type: none"> <li>• during operation</li> </ul>	-25 ... +60 °C		
<ul style="list-style-type: none"> <li>• during storage</li> </ul>	-40 ... +85 °C		
<ul style="list-style-type: none"> <li>• during transport</li> </ul>	-40 ... +85 °C		
<b>Certificates/ approvals</b>			
<b>General Product Approval</b>	<b>EMC</b>	<b>Declaration of Conformity</b>	<b>Test Certificates</b>



[Type Test Certificates/Test Report](#)

Test Certificates    other    Railway

[Special Test Certificate](#)

[Confirmation](#)

[Vibration and Shock](#)

Further information

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

<https://www.siemens.com/ic10>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3UG4625-2CW30>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4625-2CW30>

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

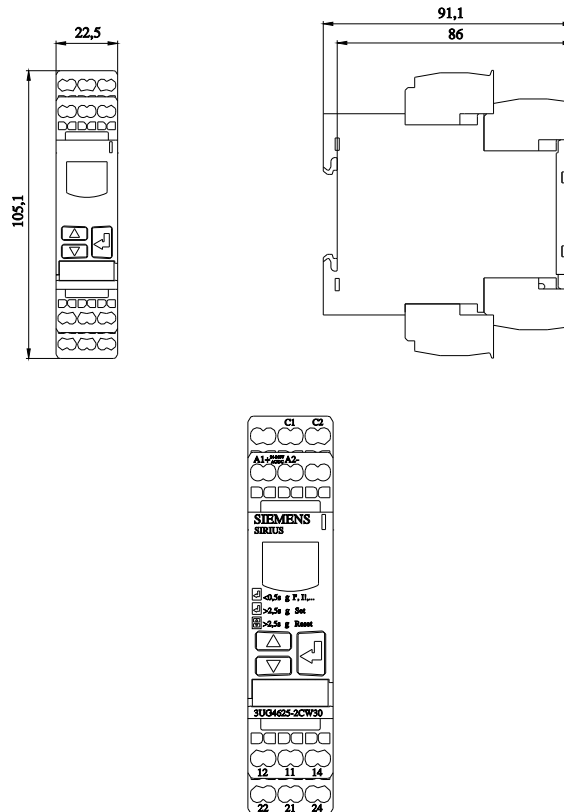
<https://support.industry.siemens.com/cs/ww/en/ps/3UG4625-2CW30>

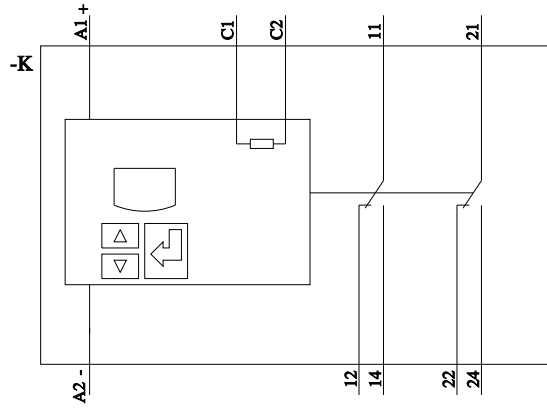
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3UG4625-2CW30&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG4625-2CW30&lang=en)

Characteristic: Derating

<https://support.industry.siemens.com/cs/ww/en/ps/3UG4625-2CW30/manual>





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