## **SIEMENS**

product brand name

Data sheet 3UG4625-2CW30

SIRIUS



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

product designation     Residual current monitoring relay with digital set       product type designation     3UG4       General technical data     for three-phase supplies       design of the display     LCD       insulation voltage	tting
General technical data  product function for three-phase supplies  design of the display LCD	
product function     for three-phase supplies       design of the display     LCD	
design of the display LCD	
insulation voltage	
madation voitage	
• rated value 300 V	
for overvoltage category III according to IEC 60664	
— with degree of pollution 3 rated value 300 V	
degree of pollution 3	
type of voltage of the control supply voltage AC/DC	
surge voltage resistance rated value 4 kV	
protection class IP IP20	
• of the enclosure IP20	
• of the terminal IP20	
shock resistance according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms	
vibration resistance according 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	
thermal current of the switching element with 5 A contacts maximum	
reference code according to IEC 81346-2 K	
relative repeat accuracy 1 %	
Substance Prohibitance (Date) 02/14/2013	
Product Function	
product function	
• 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	
Control circuit/ Control	
control supply voltage at AC	
• at 50 Hz rated value 24 240 V	
• at 60 Hz rated value 24 240 V	
control supply voltage at DC	
• rated value 24 240 V	

operating range factor control supply voltage rated	
value at DC	0.05
• initial value	0.85
full-scale value	1.1
operating range factor control supply voltage rated value at AC at 50 Hz	
initial value	0.85
full-scale value	1.1
operating range factor control supply voltage rated value at AC at 60 Hz	
• initial value	0.85
full-scale value	1.1
Measuring circuit	
type of current for monitoring	AC
measurable current	10 mA 43 A
measurable line frequency	16 400 Hz
adjustable operating delay time	0.1 20 s
adjustable current response value current	
• 1	30 mA 40 A
• 2	30 mA 40 A
adjustable response delay time	0 20 s
adjustable response delay time when starting	0.1 20 s
buffering time in the event of power failure minimum	10 ms
accuracy of digital display	+/-1 digit
Precision	
relative metering precision	5 %
temperature drift per °C	0.1 %/°C
Auxiliary circuit	
number of NC contacts for auxiliary contacts	0
number of NC contacts delayed switching	0
number of NO contacts for auxiliary contacts	0
number of NO contacts delayed switching	0
number of CO contacts	
<ul> <li>for auxiliary contacts</li> </ul>	2
delayed switching	2
operating frequency with 3RT2 contactor maximum	5 000 1/h
Main circuit	
type of voltage	AC/DC
operating voltage rated value	24 240 V
operating frequency rated value	16 400 Hz
ampacity of the output relay at AC-15	
• at 250 V at 50/60 Hz	3 A
• at 400 V at 50/60 Hz	0 A
ampacity of the output relay at DC-13	
• at 24 V	1 A
• at 125 V	0.2 A
• at 250 V	0.1 A
operational current at 17 V minimum	5 mA
continuous current of the DIAZED fuse link of the output relay	4 A
Electromagnetic compatibility	
conducted interference	
due to burst according to IEC 61000-4-4	2 kV
<ul> <li>due to burst according to IEC 01000-4-4</li> <li>due to conductor-earth surge according to IEC 61000-4-5</li> </ul>	2 kV
due to conductor-conductor surge according to IEC 61000-4-5	1 kV
field-based interference according to IEC 61000-4-3	10 V/m
electrostatic discharge according to IEC 61000-4-3	4 kV contact discharge / 8 kV air discharge
Galvanic isolation	The solitate disolitings / o he all disolitings
	salvania isalatian
design of the electrical isolation	galvanic isolation

	_		
galvanic isolation			
<ul> <li>between input and output</li> </ul>	Yes		
<ul> <li>between the outputs</li> </ul>	Yes		
<ul> <li>between the voltage supply and other circuits</li> </ul>	No		
Connections/ Terminals			
product component removable terminal for auxiliary and control circuit	Yes		
type of electrical connection	spring-loaded terminals		
type of connectable conductor cross-sections			
• solid	2x (0.25 1.5 mm²)		
<ul> <li>finely stranded with core end processing</li> </ul>	2 x (0.25 1.5 mm²)		
finely stranded without core end processing	2x (0.25 1.5 mm²)		
at AWG cables solid	2x (24 16)		
<ul> <li>at AWG cables stranded</li> </ul>	2x (24 16)		
connectable conductor cross-section			
• solid	0.25 1.5 mm <sup>2</sup>		
<ul> <li>finely stranded with core end processing</li> </ul>	0.25 1.5 mm²		
finely stranded without core end processing	0.25 1.5 mm²		
AWG number as coded connectable conductor cross			
section			
• solid	24 16		
• stranded	24 16		
Installation/ mounting/ dimensions			
mounting position	any		
fastening method	screw and snap-on mountin	g onto 35 mm standard	mounting rail
height	103 mm	-	
width	22.5 mm		
depth	91 mm		
required spacing			
with side-by-side mounting			
— forwards	0 mm		
— backwards	0 mm		
— upwards	0 mm		
— downwards	0 mm		
— at the side	0 mm		
for grounded parts			
— forwards	0 mm		
— backwards	0 mm		
— upwards	0 mm		
— at the side	0 mm		
— downwards	0 mm		
• for live parts			
— forwards	0 mm		
— backwards	0 mm		
— upwards	0 mm		
— downwards	0 mm		
— at the side	0 mm		
Ambient conditions			
installation altitude at height above sea level maximum	2 000 m		
ambient temperature	2 000 III		
during operation	-25 +60 °C		
	-25 +60 °C		
<ul><li>during storage</li><li>during transport</li></ul>	-40 +85 °C		
	-40 100 C		
Certificates/ approvals			
General Product Approval		EMC	Declaration of Conformity













Test Certificates other Railway

<u>Type Test Certific-</u> <u>Special Test Certific-</u> <u>Confirmation</u> <u>Vibration and Shock ates/Test Report</u>

## **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

 ${\bf Service \& Support~(Manuals,~Certificates,~Characteristics,~FAQs,...)}$ 

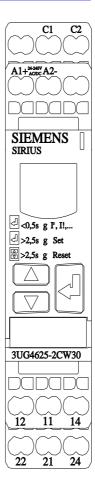
https://support.industry.siemens.com/cs/ww/en/ps/3UG4625-2CW30

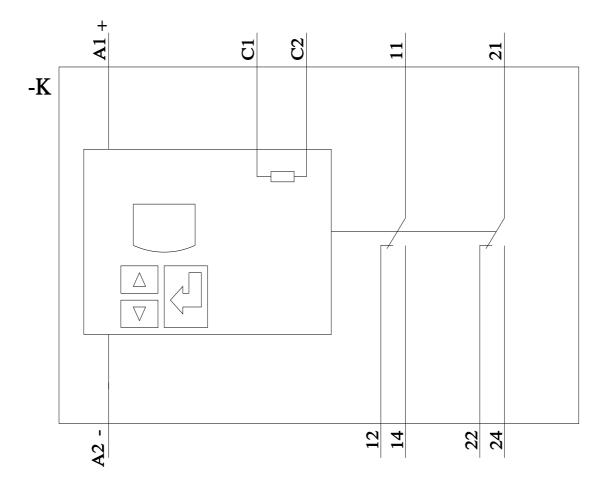
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

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

**Characteristic: Derating** 

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





last modified: 12/21/2020 ☑