SIEMENS

Data sheet

3UG4625-1CW30



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 screw terminal

14 4	
product brand name	SIRIUS
product designation	Residual current monitoring relay with digital setting
product type designation	3UG4
General technical data	
product function	for three-phase supplies
design of the display	LCD
insulation voltage	
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 (operating cycles) typical	10 000 000
electrical endurance (operating cycles) at AC-15 at 230 V typical	100 000
thermal current of the switching element with contacts maximum	5 A
reference code according to IEC 81346-2	К
relative repeat accuracy	1 %
Substance Prohibitance (Date)	02/14/2013
SVHC substance name	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8
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	5
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	0
for auxiliary contacts	2
delayed switching	2
	5 000 1/h
operating frequency with 3RT2 contactor maximum Main circuit	5 000 1/1
	AC/DC
type of voltage	24 240 V
operating voltage rated value	
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	1A
• 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
 due to burst according to IEC 01000-4-4 due to conductor-earth surge according to IEC 61000-4-5 	2 kV
due to conductor-conductor surge according to IEC	2 KV 1 KV
61000-4-5	1 114
field-based interference according to IEC 61000-4-3	10 V/m
electrostatic discharge according to IEC 61000-4-2	4 kV contact discharge / 8 kV air discharge
Galvanic isolation	
design of the electrical isolation	galvanic isolation
galvanic isolation	
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 between input and output 	Yes
between the outputs	Yes
 between the voltage supply and other circuits 	No
Connections/ Terminals	
product component removable terminal for auxiliary and	Yes
control circuit	
type of electrical connection	screw-type terminals
type of connectable conductor cross-sections	
• solid	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
 finely stranded with core end processing 	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
 for AWG cables solid 	2x (20 14)
 for AWG cables stranded 	2x (20 14)
connectable conductor cross-section	
• solid	0.5 4 mm²
 finely stranded with core end processing 	0.5 2.5 mm²
AWG number as coded connectable conductor cross section	
• solid	20 14
• stranded	20 14
tightening torque with screw-type terminals	0.8 1.2 N·m
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm DIN rail
height	102 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	
during operation	-25 +60 °C
during storage	-40 +85 °C
during transport	-40 +85 °C
Certificates/ approvals	
	Declaration of Con-
General Product Approval	EMC Declaration of Con-
Confirmation	EHE 💩 LR
Declaration of Con- Test Certificates	other Railway



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Special Test Certificate <u>Type Test Certific-</u> ates/Test Report **Confirmation**

Vibration and Shock

Further information

Siemens has decided to exit the Russian market (see here).

 $\underline{https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business}$

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3UG4625-1CW30

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAX order/default.aspx?lang=en\&mlfb=3UG4625-1CW30$

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

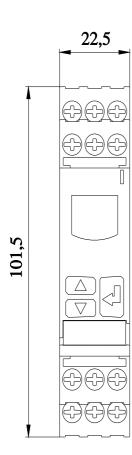
https://support.industry.siemens.com/cs/ww/en/ps/3UG4625-1CW30

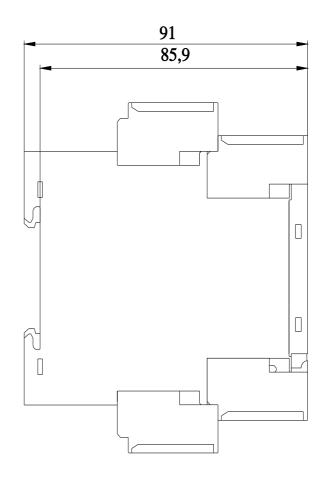
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG4625-1CW30&lang=en

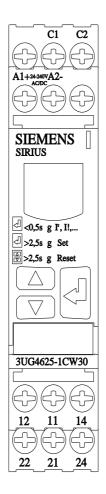
Characteristic: Derating

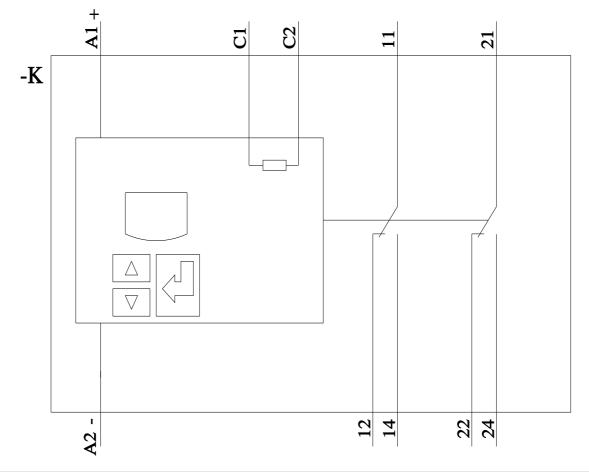
https://support.industry.siemens.com/cs/ww/en/ps/3UG4625-1CW30/manual











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