SIEMENS

product brand name

Data sheet 3UG4625-1CW30

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 screw terminal

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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 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
thermal current of the switching element with contacts maximum	5 A
reference code acc. to IEC 81346-2	K
relative repeat accuracy	1 %
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 operating range factor control supply voltage rated	1.1
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
• 1	30 mA 40 A
adjustable response delay time	0 20 s
adjustable response delay time when starting buffering time in the event of power failure minimum	0.1 20 s 10 ms
accuracy of digital display	+/-1 digit
Precision	+/- i digit
	5 %
relative metering precision temperature drift per °C	0.1 %/°C
Auxiliary circuit	0.1 707 C
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	
for auxiliary contacts	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
Outputs	
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 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	1 kV
61000-4-5	

Selectrical isolation	field-based interference acc. to IEC 61000-4-3	10 V/m
design of the electrical isolation galvanic isolation * between the outputs	electrostatic discharge acc. to IEC 61000-4-2	4 kV contact discharge / 8 kV air discharge
galvanic Isolation • between the outputs • between the voltage supply and other circuits • between the voltage supply and other circuits • between the voltage supply and other circuits • between the voltage supply and other circuits product function removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections • solid • finely stranded with core end processing • at AWG cables stranded • connectable conductor cross-section solid • connectable conductor cross-section finely stranded with core end processing • AWG number as coded connectable conductor cross-section finely stranded with core end processing • AWG number as coded connectable conductor cross-section solid • AWG number as coded connectable conductor cross-section slid on the stranded • lightening forque with screw-type terminals Installation/mounting/dimensions mounting position fastening method height vidth • or grounded parts - forwards - at the side • ownwards - upwards - at the side - downwards - the side - downwards - the side - downwards - upwards - at the side - downwards - the side - downwards - the side - downwards - upwards - at the side - downwards - the si	Galvanic isolation	
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Installation/ mounting/ dimensions mounting position fastening method	cross section stranded	
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Screw and snap-on mounting onto 35 mm standard mounting rail	Installation/ mounting/ dimensions	
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required spacing with side-by-side mounting — forwards — backwards — upwards — downwards — at the side of for grounded parts — forwards — backwards — backwards — omm forwards — omm forwards — omm forwards — omm upwards — upwards — upwards — at the side — downwards — omm for live parts — forwards — backwards — omm — downwards — omm for live parts — forwards — backwards — omm — downwards — omm hards — backwards — omm — downwards — omm — at the side — omm Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation ambient temperature during storage - 40 +85 °C certificates/ approvals	width	22.5 mm
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Certificates/ approvals		
		-40 +85 °C
General Product EMC Declaration of Conformity Test Certificates		
	General Product EMC Declaration of	of Conformity Test Certificates





Miscellaneous



Special Test Certificate

Type Test Certificates/Test Report

other Railway

Confirmation Vibration and Shock

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

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4625-1CW30

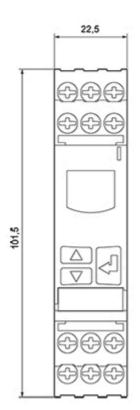
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

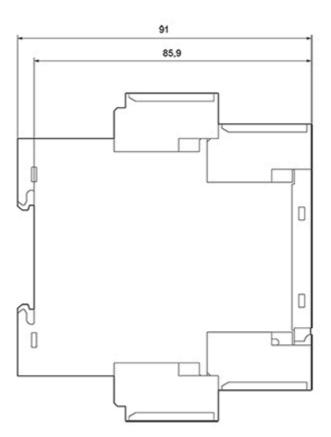
https://support.industry.siemens.com/cs/ww/en/ps/3UG4625-1CW30

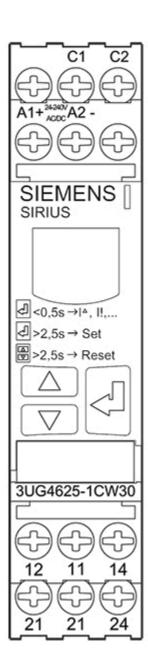
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax de.aspx?mlfb=3UG4625-1CW30&lang=en

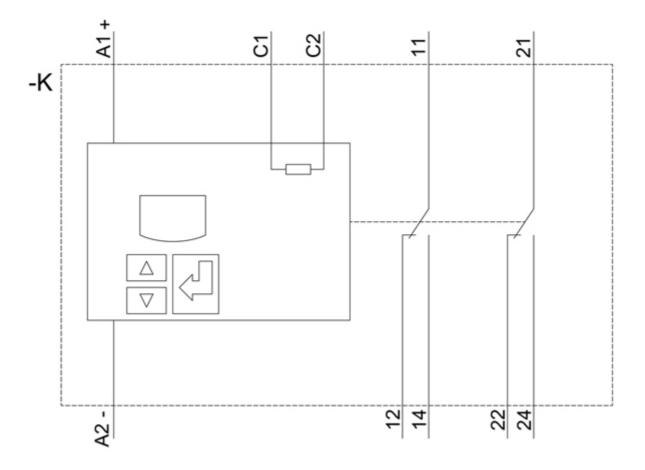
Characteristic: Derating

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









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