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

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	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		
turalturalta-us- et DO			
control supply voltage at DC			
• rated value	24 240 V		

DC	
• 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	
for auxiliary contacts delayed switching	2
delayed switching operating frequency with 3RT2 contactor maximum	2 5 000 1/h
Main circuit	0 000 1/11
type of voltage	AC/DC
operating voltage rated value	24 240 V
operating voltage rated value	16 400 Hz
ampacity of the output relay at AC-15	10 400 112
• 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 conductor-earth surge according to IEC 61000-4-5	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 61000-4-2	4 kV contact discharge / 8 kV air discharge
Galvanic isolation	
design of the electrical isolation	galvanic isolation
galvanic isolation	
 between input and output 	Yes
between the outputs	Yes

 between the voltage supply and other circuits 	No		
Connections/ Terminals	NO		
product component removable terminal for auxiliary and	Voc		
control circuit	Yes		
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		
nstallation/ 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			
General Product Approval	EMC Declaration of Conformity		
General Product Approval Confirmation			











Declaration of Conformity Test Certificates	other	Railway
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Siemens has decided to exit the Russian market (see here).

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

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

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

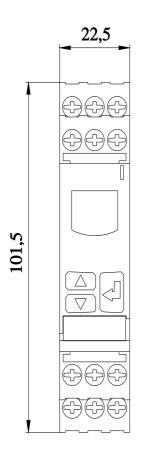
https://support.industry.siemens.com/cs/ww/en/ps/3UG4625-1CW30

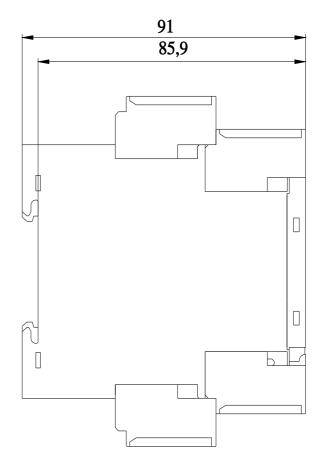
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

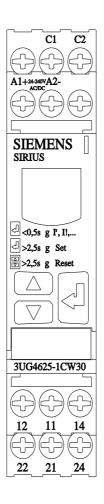
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG4625-1CW30&lang=en

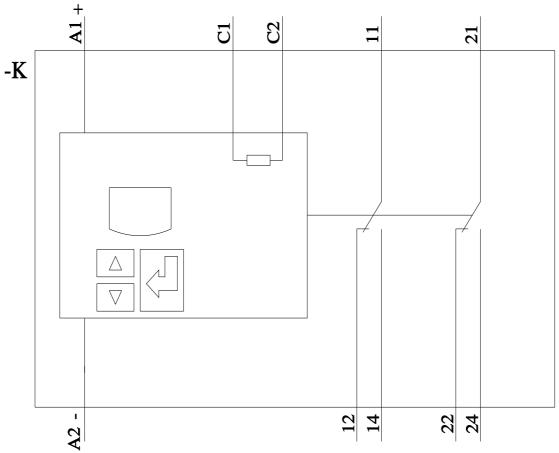
Characteristic: Derating

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









last modified: 11/21/2022 🖸