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 brand name	SINIUS		
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 %		
Substance Prohibitance (Date)	14.02.2013 00:00:00		
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	
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 	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	
field-based interference acc. to IEC 61000-4-3	10 V/m
electrostatic discharge acc. to IEC 61000-4-2	4 kV contact discharge / 8 kV air discharge
Galvanic isolation	

design of the electrical inclution	. aalva	nia igalation				
design of the electrical isolation qalvanic isolation	yaiva	nic isolation				
	Vaa					
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 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)					
 at AWG cables solid 	2x (20 14)					
at AWG cables stranded	2x (2	0 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					
stranded	20	14				
tightening torque with screw-type terminals	0.8	. 1.2 N·m				
Installation/ mounting/ dimensions						
mounting position	any					
fastening method	screv	v and snap-on mounting	g onto 35 mm standard	mounting rail		
height	102 r	nm		-		
width	22.5	mm				
depth	91 m	m				
required spacing						
with side-by-side mounting						
— forwards	0 mn	0 mm				
— backwards	0 mm					
— upwards	0 mm					
— downwards	0 mn	0 mm				
— at the side	0 mn	1				
for grounded parts						
— forwards	0 mn	1				
— backwards	0 mn					
— upwards	0 mn					
— at the side	0 mn					
— downwards	0 mn					
• for live parts	5 11111					
— forwards	0 mn	1				
— backwards	0 mn					
— upwards	0 mn					
— upwarus — downwards	0 mn					
— at the side	0 mn					
	O IIIII					
Ambient conditions	0.00)				
installation altitude at height above sea level maximum	2 000 m					
ambient temperature	0.5	0.000				
during operation		-25 +60 °C				
during storage	-40 +85 °C					
during transport	-40 +85 °C					
Certificates/ approvals						
General Product Approval		EMC	Declaration of Conformity	Test Certificates		











Special Test Certific-<u>ate</u>

Test Certificates	other	Railway
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Type Test Certificates/Test Report

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=3UG4625-1CW30

Cax online generator

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

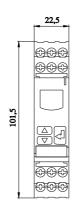
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

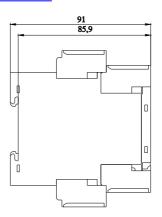
https://support.industry.siemens.com/cs/ww/en/ps/3UG4625-1CW30

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

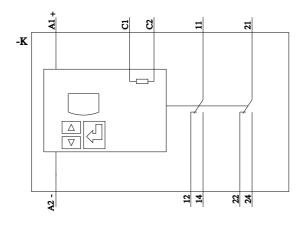
Characteristic: Derating

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









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