SIEMENS

Data sheet

3UG4621-2AW30



Digital monitoring relay Current monitoring, 22.5 mm from 2-500 mA AC/DC 0vershoot and undershoot 24 to 240 V AC/DC 50 to 60 Hz DC and AC ON delay and noise pulses delay 0.1 to 20 s Hysteresis 0.1 to 250 mA 1 change-over contact with or without fault buffer spring-type connection system

product brand name	SIRIUS		
product designation	Current monitoring relay with digital setting		
product type designation	3UG4		
General technical data			
product function	Current monitoring relay		
design of the display	LCD		
insulation voltage for overvoltage category III according to IEC 60664			
 with degree of pollution 3 rated value 	690 V		
degree of pollution	3		
surge voltage resistance rated value	4 kV		
maximum permissible voltage for safe isolation			
 between auxiliary and auxiliary circuit 	300 V		
 between control and auxiliary circuit 	300 V		
protection class IP	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 contacts maximum	5 A		
reference code according to IEC 81346-2	К		
relative repeat accuracy	1 %		
Substance Prohibitance (Date)	05/01/2012		
Product Function			
product function			
 overcurrent detection 1 phase 	Yes		
 overcurrent detection 3 phase 	No		
 undercurrent detection 1 phase 	Yes		
 undercurrent detection 3 phases 	No		
 overcurrent detection DC 	Yes		
 undercurrent detection DC 	Yes		
 current window recognition DC 	Yes		
 voltage window recognition 1 phase 	No		
 voltage window recognition 3 phase 	No		
 adjustable open/closed-circuit current principle 	Yes		
external reset	Yes		
auto-RESET	Yes		
Supply voltage			

	10/20
type of voltage of the supply voltage	AC/DC
supply voltage 1 at AC	
• at 50 Hz	20.4 264 V
• at 60 Hz	20.4 264 V
supply voltage 1 at DC	20.4 264 V
Measuring circuit	
type of current for monitoring	AC/DC
measurable current	0.003 0.6 A
measurable line frequency	40 500 Hz
adjustable current response value current	
• 1	0.003 0.5 A
• 2	0.003 0.5 A
adjustable response delay time	
when starting	0.1 20 s
with lower or upper limit violation	0.1 20 s
adjustable switching hysteresis for measured current value	0.1 250 mA
buffering time in the event of power failure minimum	10 ms
accuracy of digital display	+/-1 digit
relative temperature-related measurement deviation	5 %
internal resistance of the measuring circuit	500 mΩ
Precision	
relative metering precision	5 %
temperature drift per °C	0.1 %/°C
Auxiliary circuit	
number of NC contacts delayed switching	0
number of NO contacts delayed switching	0
number of CO contacts delayed switching	1
operating frequency with 3RT2 contactor maximum	5 000 1/h
Main circuit	
	1
number of poles for main current circuit	1 24 240 V
number of poles for main current circuit operating voltage rated value	
number of poles for main current circuit	24 240 V
number of poles for main current circuit operating voltage rated value ampacity of the output relay at AC-15	
number of poles for main current circuitoperating voltage rated valueampacity of the output relay at AC-15• at 250 V at 50/60 Hz• at 400 V at 50/60 Hz	24 240 V 3 A
number of poles for main current circuitoperating voltage rated valueampacity of the output relay at AC-15• at 250 V at 50/60 Hz	24 240 V 3 A
number of poles for main current circuitoperating voltage rated valueampacity of the output relay at AC-15• at 250 V at 50/60 Hz• at 400 V at 50/60 Hzampacity of the output relay at DC-13	24 240 V 3 A 3 A
number of poles for main current circuitoperating voltage rated valueampacity of the output relay at AC-15• at 250 V at 50/60 Hz• at 400 V at 50/60 Hzampacity of the output relay at DC-13• at 24 V	24 240 V 3 A 3 A 1 A
number of poles for main current circuitoperating voltage rated valueampacity of the output relay at AC-15• at 250 V at 50/60 Hz• at 400 V at 50/60 Hzampacity of the output relay at DC-13• at 24 V• at 125 V	24 240 V 3 A 3 A 1 A 0.2 A
number of poles for main current circuitoperating voltage rated valueampacity of the output relay at AC-15• at 250 V at 50/60 Hz• at 400 V at 50/60 Hzampacity of the output relay at DC-13• at 24 V• at 125 V• at 250 V	24 240 V 3 A 3 A 1 A 0.2 A 0.1 A
number of poles for main current circuit operating voltage rated value ampacity of the output relay at AC-15 • at 250 V at 50/60 Hz • at 400 V at 50/60 Hz ampacity of the output relay at DC-13 • at 24 V • at 250 V	24 240 V 3 A 3 A 1 A 0.2 A 0.1 A 0.005 A
number of poles for main current circuit operating voltage rated value ampacity of the output relay at AC-15 • at 250 V at 50/60 Hz • at 400 V at 50/60 Hz ampacity of the output relay at DC-13 • at 24 V • at 250 V • at 250 V • at 250 V • operational current at 17 V minimum continuous current of the DIAZED fuse link of the	24 240 V 3 A 3 A 1 A 0.2 A 0.1 A 0.005 A
number of poles for main current circuit operating voltage rated value ampacity of the output relay at AC-15 • at 250 V at 50/60 Hz • at 400 V at 50/60 Hz ampacity of the output relay at DC-13 • at 24 V • at 250 V <td< td=""><td>24 240 V 3 A 3 A 1 A 0.2 A 0.1 A 0.005 A</td></td<>	24 240 V 3 A 3 A 1 A 0.2 A 0.1 A 0.005 A
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number of poles for main current circuit operating voltage rated value ampacity of the output relay at AC-15 • at 250 V at 50/60 Hz • at 400 V at 50/60 Hz ampacity of the output relay at DC-13 • at 24 V • at 250 V <td< td=""><td>24 240 V 3 A 3 A 1 A 0.2 A 0.1 A 0.005 A 4 A 2 kV 2 kV 1 kV</td></td<>	24 240 V 3 A 3 A 1 A 0.2 A 0.1 A 0.005 A 4 A 2 kV 2 kV 1 kV
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product component removable terminal for auxiliary and control circuit	Yes		
type of electrical connection			
 for main current circuit 	spring-loaded terminals		
 for auxiliary and control circuit 	spring-loaded terminals		
type of connectable conductor cross-sections			
• solid	2x (0.25 1.5 mm²)		
 finely stranded with core end processing 	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)		
 at AWG cables stranded 	2x (24 16)		
connectable conductor cross-section			
• solid	0.25 1.5 mm ²		
 finely stranded with core end processing 	0.25 1.5 mm ²		
 finely stranded without core end processing 	0.25 1.5 mm ²		
AWG number as coded connectable conductor cross section			
• solid	24 16		
• stranded	24 16		
nstallation/ mounting/ dimensions			
mounting position	any		
fastening method	snap-on mounting		
height	94 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		
	Umm		
for live parts for used	0.000		
— 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
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Test Certificates		Marine / Shipping		other	Railway
Special Test Certific- ate	Type Test Certific- ates/Test Report	Llovds Register us	DNV-GL DNV-GL	<u>Confirmation</u>	Vibration and Shock

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Cax online generator

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Characteristic: Derating

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