SIEMENS

Data sheet 3UG4622-2AW30



Digital monitoring relay Current monitoring, 22.5 mm from 0.05-10 A 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 0.01 to 5 A 1 change-over contact with or without fault buffer spring-type connection system

Figure similar

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 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)	01.05.2012 00:00:00		
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			
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	0.05 15 A		
measurable line frequency	40 500 Hz		
adjustable current response value current			
• 1	0.05 10 A		
• 2	0.05 10 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	10 5 000 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	5 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			
number of poles for main current circuit	1		
	1 24 240 V		
number of poles for main current circuit			
number of poles for main current circuit operating voltage rated value	24 240 V		
number of poles for main current circuit operating voltage rated value Outputs			
number of poles for main current circuit operating voltage rated value Outputs ampacity of the output relay at AC-15 • at 250 V at 50/60 Hz • at 400 V at 50/60 Hz	24 240 V		
number of poles for main current circuit operating voltage rated value Outputs 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	24 240 V 3 A 3 A		
number of poles for main current circuit operating voltage rated value Outputs 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	24 240 V 3 A 3 A 1 A		
number of poles for main current circuit operating voltage rated value Outputs 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 125 V	24 240 V 3 A 3 A 1 A 0.2 A		
number of poles for main current circuit operating voltage rated value Outputs 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 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 Outputs 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 125 V • at 250 V operational current at 17 V minimum	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 Outputs 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 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 Outputs 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 125 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 Outputs 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 125 V • at 250 V operational current at 17 V minimum continuous current of the DIAZED fuse link of the output relay	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 Outputs 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 125 V • at 250 V operational current at 17 V minimum continuous current of the DIAZED fuse link of the output relay Electromagnetic compatibility	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 Outputs 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 125 V • at 250 V operational current at 17 V minimum continuous current of the DIAZED fuse link of the output relay Electromagnetic compatibility conducted interference	24 240 V 3 A 3 A 1 A 0.2 A 0.1 A 0.005 A 4 A		
number of poles for main current circuit operating voltage rated value Outputs 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 125 V • at 250 V operational current at 17 V minimum continuous current of the DIAZED fuse link of the output relay Electromagnetic compatibility conducted interference • due to burst acc. to IEC 61000-4-4	24 240 V 3 A 3 A 1 A 0.2 A 0.1 A 0.005 A 4 A		
number of poles for main current circuit operating voltage rated value Outputs 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 125 V • at 250 V operational current at 17 V minimum continuous current of the DIAZED fuse link of the output relay Electromagnetic compatibility conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC	24 240 V 3 A 3 A 1 A 0.2 A 0.1 A 0.005 A 4 A		
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number of poles for main current circuit operating voltage rated value Outputs 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 125 V • at 250 V operational current at 17 V minimum continuous current of the DIAZED fuse link of the output relay Electromagnetic compatibility conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 field-based interference acc. to IEC 61000-4-3	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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number of poles for main current circuit operating voltage rated value Outputs 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 125 V • at 250 V operational current at 17 V minimum continuous current of the DIAZED fuse link of the output relay Electromagnetic compatibility conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 field-based interference acc. to IEC 61000-4-3 electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation	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 10 V/m 6 kV contact discharge / 8 kV air discharge		
number of poles for main current circuit operating voltage rated value Outputs 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 125 V • at 250 V operational current at 17 V minimum continuous current of the DIAZED fuse link of the output relay Electromagnetic compatibility conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 field-based interference acc. to IEC 61000-4-3 electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation design of the electrical isolation	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 10 V/m 6 kV contact discharge / 8 kV air discharge		
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number of poles for main current circuit operating voltage rated value Outputs ampacity of the output relay at AC-15	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 10 V/m 6 kV contact discharge / 8 kV air discharge Protective separation Yes Yes		

product component removable terminal for main	Yes			
circuit				
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 mm²			
finely stranded with core end processing	0.25 1.5 mm ²			
	0.25 1.5 mm²			
finely stranded without core end processing	0.25 1.5 [[[[[
AWG number as coded connectable conductor cross section				
• solid	24 16			
stranded	24 16			
	24 10		_	
stallation/ 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			
— at the side — downwards				
	0 mm			
• for live parts	•			
— forwards	0 mm			
— backwards	0 mm			
— upwards	0 mm			
— downwards	0 mm			
— at the side	0 mm			
mbient 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			
ertificates/ approvals General Product Approval	EMC	Declaration of	Test Certificate	











Type Test Certificates/Test Report

Test Certificates Marine / Shipping other Railway

Special Test Certificate





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=3UG4622-2AW30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4622-2AW30

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

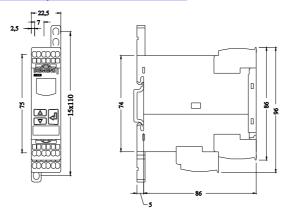
https://support.industry.siemens.com/cs/ww/en/ps/3UG4622-2AW30

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG4622-2AW30&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3UG4622-2AW30/manual



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