## **SIEMENS**

product brand name

Data sheet 3UG4621-1AA30

SIRIUS



Digital monitoring relay Current monitoring, 22.5 mm from 2-500 mA AC/DC Overshoot and undershoot Supply voltage: 24 V AC/DC 50 to 60 Hz DC and AC without galvanic isolation to measuring circuit 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 screw terminal Successor product for 3UG3521-1AC...

product type designation groduct type designation groduct type designation groduct type designation  General technical data  product function design of the display IcD IEC 60864  • with degree of pollution 3 rated value degree of pollution surge voltage resistance rated value  • with degree of pollution surge voltage resistance rated value  • between auxiliary and auxiliary circuit • between control and auxiliary circuit  • between control and auxiliary circuit  • between 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) at AC-15 at 230 V  typical electrical endurance (operating cycles) at AC-15 at 230 V  typical  thermal current of the switching element with contacts maximum  reference code according to IEC 81346-2  relative repeat accuracy 1 %  Substance Prohibitance (Date)  Product Function  • overcurrent detection 1 phase • overcurrent detection 3 phases • ondercurrent detection 1 phase • overcurrent detection DC • current window recognition DC  ves • undercurrent detection DC • current mindow recognition 1 phase • voltage window recognition 1 phase • voltage very process of the process of the phase • voltage window recognition 2 phase • voltage window recognition 3 phase • adjustable open/closed-circuit current principle • external reset • voltage very process of the process o	· · · · · · · · · · · · · · · · · · ·	
General technical data  product function Current monitoring relay design of the display ILCD insulation voltage for overvoltage category III according to IEC 60684  * with degree of pollution 3 rated value 690 V degree of pollution 3 surge voltage resistance rated value  * between auxiliary and auxiliary circuit 500 V  * between auxiliary and auxiliary circuit 500 V  * between control and auxiliary circuit 500 V  * between control and auxiliary circuit 500 V  * 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) ptical electrical endurance (operating cycles) at AC-15 at 230 V typical electrical endurance (operating cycles) at AC-15 at 230 V typical sthermal current of the switching element with contacts maximum reference code according to IEC 81346-2 k relative repeat accuracy 1 % Substance Prohibitance (Date)  **Product Function **Overcurrent detection 1 phase overcurrent detection 3 phases overcurrent detection 3 phases overcurrent detection 1 phase undercurrent detection DC yes undercurrent detection DC ves undercurrent detection DC ve	product designation	Current monitoring relay with digital setting
product function design of the display Insulation voltage for overvoltage category III according to IEC 60664  • with degree of pollution 3 rated value degree of pollution 3 surge voltage resistance rated value 1	product type designation	3UG4
design of the display  insulation voltage for overvoltage category ill according to IEC 80864  • with degree of pollution 3 assure voltage resistance rated value 4kV  maximum permissible voltage for protective separation • 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 (operating cycles) typical 100 000 000  electrical endurance (operating cycles) at AC-15 at 230 V typical 100 000 000  slectrical endurance (operating cycles) at AC-15 at 230 V typical 100 000 000  thermal current of the switching element with contacts maximum reference code according to IEC 81346-2 K  relative repeat accuracy 1%  Substance Prohibitance (Date) 05/01/2012  Product Function  product function  • overcurrent detection 1 phase Yes  • undercurrent detection 1 DC Yes  • undercurrent detection 1 phase No  • voltage window recognition 2 phase No  • voltage window recognition 1 phase No  • voltage window recognition 2 phase No  • voltage windo	General technical data	
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 protective separation • 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 (operating cycles) typical 10 0000 000  electrical endurance (operating cycles) typical 10 0000 000  thermal current of the switching element with contacts maximum reference code according to IEC 81346-2 K  relative repeat accuracy 1 %  Substance Prohibitance (Date) 05/01/2012  Product Function  product function  product function 1 phase Yes • overcurrent detection 1 phase Yes • undercurrent detection 1 phase Yes • undercurrent detection 1 phase Yes • undercurrent detection DC Yes • overcurrent detection DC Yes • overcurrent detection DC Yes • voltage window recognition DC Yes • voltage window recognition 1 phase No • voltage window recognition 3 phase No • voltage window recognition 4 phase No • voltage window recognition 5 phase No • voltage window recognition 5 phase No • voltage window recognition 7 phase No	product function	Current monitoring relay
With degree of pollution 3 rated value   690 V	design of the display	LCD
degree of pollution  surge voltage resistance rated value  maximum permissible voltage for protective separation  • between auxiliary and auxiliary circuit  • between control and auxiliary circuit  • between auxiliary and auxiliary circuit  • between control and auxiliary circuit  • shock resistance according to IEC 60068-2-67  • sinusoidal half-wave 15g / 11 ms  • vibration resistance according to IEC 60068-2-68  • 1 6 Hz: 15 mm, 6 500 Hz: 2g  • 100 000  • 10		
surge voltage resistance rated value maximum permissible voltage for protective separation • between auxiliary and auxiliary circuit • between control and auxiliary circuit  • between control and auxiliary circuit  • between control and auxiliary circuit  • between control and auxiliary circuit  • between control and auxiliary circuit  • between control and auxiliary circuit  • between control and auxiliary circuit  • between control and auxiliary circuit  • source control auxiliary circuit  • between control and auxiliary circuit  • between control and auxiliary circuit  • source control auxiliary circuit  • source control between the control auxiliary circuit  • between control auxiliary circuit  • between control auxiliary circuit  • source according to IEC 60068-2-7  • sinusoidal half-wave 15g / 11 ms  • loo Hz: 15 mm, 6 500 Hz: 2g  • loo 000  • loo 000  • loo 000  • loo 000  • termal current of the switching element with contacts  • substance Prohibitance (perating cycles) at AC-15 at 230 V typical  • loo 000  • substance Prohibitance (Date)  • loo 05/01/2012  • loo 05/01/	with degree of pollution 3 rated value	690 V
maximum permissible voltage for protective separation  • between auxiliary and auxiliary circuit  • between control and auxiliary circuit  300 V  • between control and auxiliary circuit  300 V  protection class IP  protection class IP  shock resistance according to IEC 60068-2-27  vibration resistance according to IEC 60068-2-6  mechanical service life (operating cycles) typical  electrical endurance (operating cycles) at AC-15 at 230 V typical  thermal current of the switching element with contacts maximum  reference code according to IEC 81346-2  relative repeat accuracy  1 %  Substance Prohibitance (Date)  Product Function  • overcurrent detection 1 phase • overcurrent detection 3 phase • undercurrent detection 1 phase • overcurrent detection 1 phase • overcurrent detection DC  undercurrent detection DC  ves  undercurrent detection DC  ves  undercurrent window recognition DC  ves  current window recognition 3 phase  voltage window recognition 4 phase  voltage window recognition 5 phase  voltage window recognition 5 phase  voltage window recognition 7 phase  voltage window recognition 9 phas	degree of pollution	3
between auxiliary and auxiliary circuit     between control and auxiliary circuit     protection class IP     shock resistance according to IEC 60068-2-27     sinusoidal half-wave 15g / 11 ms  vibration resistance according to IEC 60068-2-6     mechanical service life (operating cycles) typical electrical endurance (operating cycles) at AC-15 at 230 V typical thermal current of the switching element with contacts maximum reference code according to IEC 81346-2     relative repeat accuracy     1 % Substance Prohibitance (Date)  Product Function  product function  o overcurrent detection 1 phase overcurrent detection 3 phase undercurrent detection 1 phase overcurrent detection 1 phase vers overcurrent detection DC undercurrent detection DC vers overcurrent detection DC ver	surge voltage resistance rated value	4 kV
between control and auxiliary circuit     protection class IP     shock resistance according to IEC 60068-2-27     vibration resistance according to IEC 60068-2-6     vibration resistance according to IEC 60068-2-6     1 6 Hz: 15 mm, 6 500 Hz: 2g     mechanical service life (operating cycles) typical     electrical endurance (operating cycles) at AC-15 at 230 V     typical     thermal current of the switching element with contacts     maximum  reference code according to IEC 81346-2     K relative repeat accuracy     1 % Substance Prohibitance (Date)  Product Function  product function      overcurrent detection 1 phase     overcurrent detection 3 phase     overcurrent detection 3 phase     undercurrent detection 1 phase     vendercurrent detection 1 phase     vendercurrent detection 1 phase     vendercurrent detection 1 phase     vendercurrent detection 1 phase     vercurrent detection 1 phase     vendercurrent detection 1 phase     vendercurrent detection 1 phase     vendercurrent detection 1 phase     vendercurrent detection 1 phase     volage window recognition 1 phase     voltage window recognition 1 phase     voltage window recognition 1 phase     voltage window recognition 3 phase     voltage window recognition 4 phase     voltage window recognition 5 phase     voltage window recognition 7 yes     auto-RESET     Yes     suto-RESET	maximum permissible voltage for protective separation	
protection class IP  shock resistance according to IEC 60068-2-27  sinusoidal half-wave 15g / 11 ms  vibration resistance according to IEC 60068-2-6  nechanical service life (operating cycles) typical  electrical endurance (operating cycles) at AC-15 at 230 V typical  thermal current of the switching element with contacts maximum  reference code according to IEC 81346-2  relative repeat accuracy  1 %  Substance Prohibitance (Date)  Product Function  product function  o overcurrent detection 1 phase overcurrent detection 3 phase oundercurrent detection 3 phases overcurrent detection 3 phases overcurrent detection DC yes oundercurrent detection DC yes oundercurrent detection DC current window recognition DC yes oundercurrent detection 1 phase overcurrent detection DC yes oundercurrent detection DC yes oundercurrent celection DC	<ul> <li>between auxiliary and auxiliary circuit</li> </ul>	300 V
shock resistance according to IEC 60068-2-27  vibration resistance according to IEC 60068-2-6  mechanical service life (operating cycles) typical electrical endurance (operating cycles) at AC-15 at 230 V typical thermal current of the switching element with contacts maximum  reference code according to IEC 81346-2  K relative repeat accuracy 1 % Substance Prohibitance (Date)  product Function  product function  o overcurrent detection 1 phase overcurrent detection 3 phase undercurrent detection 1 phase ves undercurrent detection DC ves undercurrent detection DC current window recognition DC current window recognition 1 phase voltage window recognition 3 phase voltage vindow recognition 4 phase voltage vindow recognition 7 yes voltage vindow recognition 7 yes voltage vindow recognition 3 phase voltage vindow recognition 4 yes voltage vindow recognition 7 yes	<ul> <li>between control and auxiliary circuit</li> </ul>	300 V
vibration resistance according to IEC 60068-2-6  mechanical service life (operating cycles) typical electrical endurance (operating cycles) at AC-15 at 230 V typical  thermal current of the switching element with contacts maximum  reference code according to IEC 81346-2  relative repeat accuracy  Substance Prohibitance (Date)  Product Function  product function  • overcurrent detection 1 phase • overcurrent detection 3 phase • undercurrent detection 3 phases • undercurrent detection DC • overcurrent detection DC • versument detection DC • current window recognition DC • voltage window recognition 3 phase • voltage window recognition 3 phase • voltage window recognition 3 phase • adjustable open/closed-circuit current principle • external reset • auto-RESET  Supply voltage	protection class IP	IP20
mechanical service life (operating cycles) typical electrical endurance (operating cycles) at AC-15 at 230 V typical thermal current of the switching element with contacts maximum  reference code according to IEC 81346-2	shock resistance according to IEC 60068-2-27	sinusoidal half-wave 15g / 11 ms
electrical endurance (operating cycles) at AC-15 at 230 V typical  thermal current of the switching element with contacts maximum  reference code according to IEC 81346-2  K relative repeat accuracy 1 %  Substance Prohibitance (Date)  Product Function  product function  • overcurrent detection 1 phase • overcurrent detection 3 phase • undercurrent detection 1 phase • undercurrent detection 3 phases No • undercurrent detection DC • overcurrent detection DC • current window recognition DC • ves • voltage window recognition 1 phase No • voltage window recognition 3 phase No • adjustable open/closed-circuit current principle • external reset • auto-RESET  Supply voltage	vibration resistance according to IEC 60068-2-6	1 6 Hz: 15 mm, 6 500 Hz: 2g
thermal current of the switching element with contacts maximum  reference code according to IEC 81346-2 K  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 • undercurrent detection 0 Phase Yes • undercurrent detection 0 Phase Yes • undercurrent detection DC Yes • undercurrent detection DC Yes • undercurrent detection DC Yes • overcurrent detection DC Yes • ourrent window recognition DC Yes • outrage window recognition 1 phase No • voltage window recognition 3 phase No • voltage window recognition 3 phase No • voltage window recognition 3 phase No • voltage response No • adjustable open/closed-circuit current principle Yes • external reset Yes • auto-RESET	mechanical service life (operating cycles) typical	10 000 000
reference code according to IEC 81346-2 K 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 3 phases No • undercurrent detection 3 phases No • overcurrent detection DC Yes • undercurrent detection DC Yes • undercurrent 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		100 000
relative repeat accuracy  Substance Prohibitance (Date)  Product Function  product function  • overcurrent detection 1 phase • overcurrent detection 3 phase • undercurrent detection 1 phase • undercurrent detection 3 phases • undercurrent detection 3 phases • undercurrent detection DC • ves • undercurrent detection DC • undercurrent detection DC • ves • undercurrent window recognition DC • ves • voltage window recognition 1 phase • voltage window recognition 3 phase • voltage window recognition 3 phase • adjustable open/closed-circuit current principle • external reset • external reset • auto-RESET  Supply voltage		5 A
Substance Prohibitance (Date)  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 • undercurrent 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	reference code according to IEC 81346-2	K
Product Function  product function  overcurrent detection 1 phase overcurrent detection 3 phase undercurrent detection 1 phase undercurrent detection 3 phases overcurrent detection 3 phases overcurrent detection DC yes undercurrent detection DC yes undercurrent detection DC yes current window recognition DC yes ovoltage window recognition 1 phase voltage window recognition 3 phase ovoltage window recognition 3 phase eadjustable open/closed-circuit current principle external reset auto-RESET Supply voltage	relative repeat accuracy	1 %
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  • undercurrent detection DC Yes  • undercurrent window recognition 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	Substance Prohibitance (Date)	05/01/2012
overcurrent detection 1 phase     overcurrent detection 3 phase     undercurrent detection 1 phase     undercurrent detection 3 phases     undercurrent detection DC     ves     undercurrent detection DC     undercurrent window recognition DC     voltage window recognition 1 phase     voltage window recognition 3 phase	Product Function	
overcurrent detection 3 phase     undercurrent detection 1 phase     undercurrent detection 3 phases     undercurrent detection DC     ves     undercurrent detection DC     ves     undercurrent detection DC     ves     undercurrent window recognition DC     voltage window recognition 1 phase     voltage window recognition 3 phase     voltage window recognition 3 phase     adjustable open/closed-circuit current principle     vexternal reset     auto-RESET     Yes  Supply voltage	product function	
undercurrent detection 1 phase undercurrent detection 3 phases overcurrent detection DC ves undercurrent detection DC undercurrent detection DC ves current window recognition DC voltage window recognition 1 phase voltage window recognition 3 phase output detection DC ves voltage window recognition 1 phase voltage window recognition 3 phase voltage window recognition 3 phase adjustable open/closed-circuit current principle ves external reset auto-RESET  Supply voltage	<ul> <li>overcurrent detection 1 phase</li> </ul>	Yes
<ul> <li>undercurrent detection 3 phases</li> <li>overcurrent detection DC</li> <li>undercurrent detection DC</li> <li>undercurrent window recognition DC</li> <li>voltage window recognition 1 phase</li> <li>voltage window recognition 3 phase</li> <li>voltage window recognition 3 phase</li> <li>adjustable open/closed-circuit current principle</li> <li>external reset</li> <li>auto-RESET</li> <li>Supply voltage</li> </ul>	<ul> <li>overcurrent detection 3 phase</li> </ul>	No
overcurrent detection DC     undercurrent detection DC     ves     current window recognition DC     voltage window recognition 1 phase     voltage window recognition 3 phase     voltage window recognition 3 phase     adjustable open/closed-circuit current principle     external reset     ves     auto-RESET     Yes  Supply voltage	<ul> <li>undercurrent detection 1 phase</li> </ul>	Yes
<ul> <li>undercurrent detection DC</li> <li>current window recognition DC</li> <li>voltage window recognition 1 phase</li> <li>voltage window recognition 3 phase</li> <li>adjustable open/closed-circuit current principle</li> <li>external reset</li> <li>auto-RESET</li> <li>Supply voltage</li> </ul>	<ul> <li>undercurrent detection 3 phases</li> </ul>	No
<ul> <li>current window recognition DC</li> <li>voltage window recognition 1 phase</li> <li>voltage window recognition 3 phase</li> <li>adjustable open/closed-circuit current principle</li> <li>external reset</li> <li>auto-RESET</li> <li>Supply voltage</li> </ul> Yes Yes Yes Yes	<ul> <li>overcurrent detection DC</li> </ul>	Yes
<ul> <li>voltage window recognition 1 phase</li> <li>voltage window recognition 3 phase</li> <li>adjustable open/closed-circuit current principle</li> <li>external reset</li> <li>auto-RESET</li> <li>Supply voltage</li> </ul> No <ul> <li>Yes</li> <li>Yes</li> </ul> Supply voltage	<ul> <li>undercurrent detection DC</li> </ul>	Yes
voltage window recognition 3 phase     adjustable open/closed-circuit current principle     external reset     auto-RESET     Yes  Supply voltage	<ul> <li>current window recognition DC</li> </ul>	Yes
<ul> <li>adjustable open/closed-circuit current principle</li> <li>external reset</li> <li>auto-RESET</li> <li>Supply voltage</li> </ul> Yes Yes Yes	<ul> <li>voltage window recognition 1 phase</li> </ul>	No
<ul> <li>external reset</li> <li>auto-RESET</li> <li>Supply voltage</li> </ul>	<ul> <li>voltage window recognition 3 phase</li> </ul>	No
auto-RESET     Yes  Supply voltage	<ul> <li>adjustable open/closed-circuit current principle</li> </ul>	Yes
Supply voltage	external reset	Yes
	• auto-RESET	Yes
	Supply voltage	
type of voltage of the supply voltage AC/DC	type of voltage of the supply voltage	AC/DC

supply voltage 1 at AC	
at 50 Hz rated value	24 V
● at 50 Hz	20.4 26.4 V
<ul> <li>at 60 Hz rated value</li> </ul>	24 V
● at 60 Hz	20.4 26.4 V
supply voltage 1 at DC	20.4 26.4 V
supply voltage 1 at DC rated value	24 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	0.17/07 0
number of NC contacts delayed switching	0
·	0
number of NO contacts delayed switching	1
number of CO contacts delayed switching operating frequency with 3RT2 contactor maximum	5 000 1/h
Operating neguency with artiz tabiliation maximum	5 000 1/11
Main circuit	
Main circuit number of poles for main current circuit	1
Main circuit number of poles for main current circuit operating voltage rated value	
Main circuit  number of poles for main current circuit  operating voltage rated value  ampacity of the output relay at AC-15	1 24 24 V
Main circuit  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	1 24 24 V 3 A
Main circuit  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	1 24 24 V
Main circuit  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	1 24 24 V 3 A 3 A
Main circuit  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	1 24 24 V 3 A 3 A
Main circuit  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 125 V	1 24 24 V 3 A 3 A 1 A 0.2 A
Main circuit  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 125 V  • at 250 V	1 24 24 V 3 A 3 A 1 A 0.2 A 0.1 A
Main circuit  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 125 V  • at 250 V  operational current at 17 V minimum	1 24 24 V 3 A 3 A 1 A 0.2 A 0.1 A 0.005 A
Main circuit  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 125 V  • at 250 V  operational current at 17 V minimum  continuous current of the DIAZED fuse link of the output	1 24 24 V 3 A 3 A 1 A 0.2 A 0.1 A
Main circuit  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 125 V  • at 250 V  operational current at 17 V minimum  continuous current of the DIAZED fuse link of the output relay	1 24 24 V 3 A 3 A 1 A 0.2 A 0.1 A 0.005 A
Main circuit  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 125 V  • at 250 V  operational current at 17 V minimum  continuous current of the DIAZED fuse link of the output relay  Electromagnetic compatibility	1 24 24 V 3 A 3 A 1 A 0.2 A 0.1 A 0.005 A
Main circuit  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 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	1 24 24 V  3 A 3 A 1 A 0.2 A 0.1 A 0.005 A 4 A
Main circuit  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 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 according to IEC 61000-4-4	1 24 24 V  3 A 3 A  1 A 0.2 A 0.1 A 0.005 A 4 A
Main circuit  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 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 according to IEC 61000-4-4  • due to conductor-earth surge according to IEC 61000-4-5	1 24 24 V  3 A 3 A 1 A 0.2 A 0.1 A 0.005 A 4 A
Main circuit  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 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 according to IEC 61000-4-4	1 24 24 V  3 A 3 A  1 A 0.2 A 0.1 A 0.005 A 4 A
Main circuit  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 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 according to IEC 61000-4-4  • due to conductor-earth surge according to IEC 61000-4-5  • due to conductor-conductor surge according to IEC	1 24 24 V  3 A 3 A 1 A 0.2 A 0.1 A 0.005 A 4 A
Main circuit  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 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 according to IEC 61000-4-4  • due to conductor-earth surge according to IEC 61000-4-5  • due to conductor-conductor surge according to IEC 61000-4-5	1 24 24 V  3 A 3 A 1 A 0.2 A 0.1 A 0.005 A 4 A  2 kV 2 kV 1 kV
Main circuit  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 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 according to IEC 61000-4-4  • due to conductor-earth surge according to IEC 61000-4-5  • due to conductor-conductor surge according to IEC 61000-4-5  field-based interference according to IEC 61000-4-3	1 24 24 V  3 A 3 A 1 A 0.2 A 0.1 A 0.005 A 4 A  2 kV 2 kV 1 kV
Main circuit  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 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 according to IEC 61000-4-4  • due to conductor-earth surge according to IEC 61000-4-5  • due to conductor-conductor surge according to IEC 61000-4-5  field-based interference according to IEC 61000-4-3  electrostatic discharge according to IEC 61000-4-2	1 24 24 V  3 A 3 A 1 A 0.2 A 0.1 A 0.005 A 4 A  2 kV 2 kV 1 kV
Main circuit  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 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 according to IEC 61000-4-4  • due to conductor-earth surge according to IEC 61000-4-5  • due to conductor-conductor surge according to IEC 61000-4-5  field-based interference according to IEC 61000-4-3  electrostatic discharge according to IEC 61000-4-2  Galvanic isolation	1 24 24 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
Main circuit  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 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 according to IEC 61000-4-4  • due to conductor-earth surge according to IEC 61000-4-5  • due to conductor-conductor surge according to IEC 61000-4-5  field-based interference according to IEC 61000-4-3  electrostatic discharge according to IEC 61000-4-2  Galvanic isolation  design of the electrical isolation  galvanic isolation	1 24 24 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
Main circuit  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 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 according to IEC 61000-4-4  • due to conductor-earth surge according to IEC 61000-4-5  • due to conductor-conductor surge according to IEC 61000-4-5  field-based interference according to IEC 61000-4-3  electrostatic discharge according to IEC 61000-4-2  Galvanic isolation  design of the electrical isolation  galvanic isolation  • between input and output	1 24 24 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
Main circuit  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 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 according to IEC 61000-4-4  • due to conductor-earth surge according to IEC 61000-4-5  • due to conductor-conductor surge according to IEC 61000-4-5  field-based interference according to IEC 61000-4-3  electrostatic discharge according to IEC 61000-4-2  Galvanic isolation  • between input and output  • between the outputs	1 24 24 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
mumber 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 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 according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5  field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2  Galvanic isolation  design of the electrical isolation galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits	1 24 24 V  3 A 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
mumber 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 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 according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2  Galvanic isolation design of the electrical isolation galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits  Connections/ Terminals	1 24 24 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 No
Main circuit  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 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 according to IEC 61000-4-4  • due to conductor-earth surge according to IEC 61000-4-5  • due to conductor-conductor surge according to IEC 61000-4-5  field-based interference according to IEC 61000-4-3  electrostatic discharge according to IEC 61000-4-2  Galvanic isolation  • between input and output  • between the outputs  • between the voltage supply and other circuits  Connections/ Terminals  product component removable terminal for main circuit	1 24 24 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 No
mumber 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 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 according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2  Galvanic isolation design of the electrical isolation galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits  Connections/ Terminals	1 24 24 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 No

type of electrical connection	
for main current circuit	screw-type terminals
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals
type of connectable conductor cross-sections	
• solid	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
<ul> <li>for AWG cables solid</li> </ul>	2x (20 14)
<ul> <li>for AWG cables stranded</li> </ul>	2x (20 14)
connectable conductor cross-section	
• solid	0.5 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	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
Installation/ mounting/ dimensions	
mounting position	any
fastening method	snap-on mounting
height	92 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 storage     during transport	-40 +85 °C
Certificates/ approvals	
General Product Approval	EMC Declaration of Conformity
Confirmation (in the confirmation confirmati	) [0] 🙈 (4
	P ENL RCM EG-Konf.

Declaration of Conformity

**Test Certificates** 

other

Marine / Shipping



Special Test Certificate

Type Test Certificates/Test Report





Confirmation

## Railway

Vibration and Shock

## Further information

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=3UG4621-1AA30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4621-1AA30

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

https://support.industry.siemens.com/cs/ww/en/ps/3UG4621-1AA30

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3UG4621-1AA30&lang=en

**Characteristic: Derating** 

https://support.industry.siemens.com/cs/ww/en/ps/3UG4621-1AA30/manual

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**Authorized Distributor** 

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