## **SIEMENS**

**Data sheet** 3UG4622-1AA30



Digital monitoring relay Current monitoring, 22.5 mm from 0.05-10 A 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 0.01 to 5 A 1 change-over contact with or without fault buffer screw terminal Successor product for 3UG3522-1AC...

Figure similar

product brand name product designation

**SIRIUS** 

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	
<ul> <li>with degree of pollution 3 rated value</li> </ul>	690 V
degree of pollution	3
surge voltage resistance rated value	4 kV
maximum permissible voltage for safe isolation	
<ul> <li>between auxiliary and auxiliary circuit</li> </ul>	300 V
<ul> <li>between control and auxiliary circuit</li> </ul>	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	10 000 000
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)	05/01/2012
Product Function	

Product Function	
product function	
<ul> <li>overcurrent detection 1 phase</li> </ul>	Yes
<ul> <li>overcurrent detection 3 phase</li> </ul>	No
<ul> <li>undercurrent detection 1 phase</li> </ul>	Yes
<ul> <li>undercurrent detection 3 phases</li> </ul>	No
<ul> <li>overcurrent detection DC</li> </ul>	Yes
<ul> <li>undercurrent detection DC</li> </ul>	Yes
<ul> <li>current window recognition DC</li> </ul>	Yes
<ul> <li>voltage window recognition 1 phase</li> </ul>	No
<ul> <li>voltage window recognition 3 phase</li> </ul>	No
<ul> <li>adjustable open/closed-circuit current principle</li> </ul>	Yes
<ul> <li>external reset</li> </ul>	Yes
• auto-RESET	Yes
Supply voltage	
type of voltage of the supply voltage	AC/DC

supply voltage 1 at AC  • at 50 Ptz ratide volue • at 60 Ptz ratide volue  Volume voltage 1 at DC • supply voltage 1 at D		
# at 60 Nz	supply voltage 1 at AC	
* at 60 Hz rated value	<ul> <li>at 50 Hz rated value</li> </ul>	24 V
a 16 0 142	● at 50 Hz	20.4 26.4 V
supply voltage 1 at DC supply voltage 1 at DC supply voltage 1 at DC state value 24 V V V V V V V V V V V V V V V V V V	<ul> <li>at 60 Hz rated value</li> </ul>	24 V
supply voltage 1 at DC zated value         24 V           Messarring circuit         0.0515 A           measurable current response value current         40500 Hz           adjustable current response value current         40500 Hz           4	● at 60 Hz	
### ACIDC		20.4 26.4 V
type of current for monitoring measurable current adjustable current (appears) (appea	supply voltage 1 at DC rated value	24 V
measurable current measurable current value adjustable current response value current value adjustable current response value current value vertices of the measurable current value	Measuring circuit	
measurable line frequency adjustable current response value current 2 2 0.05 10 A	type of current for monitoring	AC/DC
adjustable current response value current  1 1 0,55 10 A 2 adjustable response delay time  • when starting • with lower or upper limit violation adjustable switching hysteresis for measured current value  buffering time in the event of power failure minimum accuracy of digital display relative temperature-related measurement deviation internal resistance of the measuring circuit  Precision  Precision  Auxiliary recruit  number of NC contacts delayed switching 0 1 1 %"C  Auxiliary recruit  number of NC contacts delayed switching 0 1 1 %"C  number of NC contacts delayed switching 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	measurable current	0.05 15 A
• 1 • 2 adjustable response delay time • when starting • with lower or upper limit violation adjustable switching hysterosis for measured current value buffering time in the event of power failure minimum accuracy of digital display relative temperature-related measurement deviation internal resistance of the measuring circuit  Precision  relative metering procision relative metering procision relative metering procision formal resistance of the measuring circuit  Precision  Precision  Precision  relative metering procision sumber of NC contacts delayed switching number of Oc contacts delayed switching number of Do contacts delayed switching number of poles for main current circuit number of NC contacts delayed switching number of NC con	measurable line frequency	40 500 Hz
• 2 adjustable response delay time  • when starting • with lower or upper limit violation adjustable switching hysteresis for measured current value  buffering time in the event of power failure minimum accuracy of digital display relative temperature-related measurement deviation internal resistance of the measuring circuit  Precision  relative metering precision relative emetering precision temperature drift per °C  Auxiliary circuit  number of NC contacts delayed switching number of NC contacts delayed switching operating frequency with 3RT2 contactor maximum  Main circuit  number of poles for main current circuit operating voltage rated value anyacity of the output relay at AC-15 • at 250 V at 5060 Hz • at 400 V at 5060 Hz • at 125 V • at 125	adjustable current response value current	
adjustable response delay time  • when starting  • with lower or upper limit violation adjustable switching hysteresis for measured current value buffering time in the event of power failure minimum accuracy of digital display relative temperature-related measurement deviation internal resistance of the measuring circuit  Precision  relative metering precision relative metering precision relative metering precision relative metering precision relative metering precision relative metering precision represent of rift per °C Auxiliary circuit  number of NC contacts delayed switching number of NC contacts delayed switching 0 number of NC contacts delayed switching 0 number of NC contacts delayed switching 1 number of poles for main current circuit operating requency with 3RT2 contactor maximum  Main circuit  number of poles for main current circuit operating requency with 3RT2 contactor maximum  Main circuit  number of poles for main current circuit operating voltage rated value ampacity of the output relay at AC-15 at 260 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  licutormagnetic compatibility  conducted interference  • due to burst according to IEC 61000-4-4 • due to conductor-archivurge according to IEC 61000-4-5 • due to conductor-archivurge according to IEC 61000	• 1	0.05 10 A
when starting which lower or upper limit violation adjustable switching hysteresis for measured current value buffering time in the event of power failure minimum accuracy of digital display relative temperature-related measurement deviation internal resistance of the measuring circuit  Precision  relative motering precision temperature drift per °C  Auxiliary circuit  number of NC contacts delayed switching poperating frequency with 3RT2 contactor maximum  Main circuit  number of Decontacts delayed switching apparent of poles for main current circuit operating voltage rated value ampacity of the output relay at AC-15  at 250 V at 50/80 Hz at 400 V at 50/80 Hz at 24 V 3 A ampacity of the output relay at DC-13  at 24 V at 125 V at 250 V at 50/80 Hz buffering time in the event of power failure minimum continuous current of the DIAZED fuse link of the output relay  Electromagnetic compatibility  conducted interference due to bust according to IEC 61000-44 due to conductor-centhus urge according to IEC 61000-4-5 due to bust according to IEC 61000-4-2 due to conductor-conductor surge according to IEC 61000-4-5 due to bust according to IEC 61000-4-2 delayer is colored.  Selections greated control to IEC 61000-4-3 delectrostatic discharge according to IEC 61000-4-3 between he voltage supply and other circuits  No  Connections/ Terminals  Product component removable terminal for main circuit  Yes  Connections/ Terminals  Product component removable terminal for main circuit  Yes	• 2	0.05 10 A
adjustable switching hysteresis for measured current value buffering time in the event of power failure minimum accuracy of digital display relative temperature-related measurement deviation internal resistance of the measuring circuit 5 mg Precision relative metering precision 5 mg Precision	adjustable response delay time	
adjustable switching hysteresis for measured current value buffering time in the event of power failure minimum accuracy of digital display 4/-1 digit relative temperature-related measurement deviation internal resistance of the measuring circuit 5 % 5 mQ Precision	<ul><li>when starting</li></ul>	
value buffering time in the event of power failure minimum accuracy of digital display relative temperature-related measurement deviation internal resistance of the measuring circuit  Precision relative metering precision temperature drift per °C  Auxiliary circuit number of NC contacts delayed switching number of NC contacts delayed switching number of NC contacts delayed switching operating frequency with 3RT2 contactor maximum  Main circuit number of poles for main current circuit operating violage rated value ampacity of the output relay at AC-15  • at 250 ∨ at 50/60 Hz • at 4250 ∨ at 50/60 Hz • at 125 ∨ • at 250 ∨ operation from the output relay at DC-13  • at 250 ∨ operation and the precision of the DiaZED fuse link of the output relay of the Output of Output	• • • • • • • • • • • • • • • • • • • •	0.1 20 s
buffering time in the event of power failure minimum accuracy of digital display 4/-1 digit relative temperature-related measurement deviation internal resistance of the measuring circuit 5 mΩ  Precision  relative metering precision 5 % 5 m    temperature drift per "C		10 5 000 mA
accuracy of digital display relative temperature-related measurement deviation internal resistance of the measuring circuit  Precision relative metering precision temperature drift per "C 0,1%"C  Auxiliary circuit number of NC contacts delayed switching number of NC contacts delayed switching 0 number of NC contacts delayed switching 1 number of CO contacts delayed switching 1 number of OC contacts delayed switching 1 number of OC sontacts delayed switching 1 number of OC sontacts delayed switching 1 number of CO contacts delayed switching 1 number of OC sontacts delayed switching 1 number of CO contacts delayed switching 1 number of NC contacts delaye		40
relative temperature-related measurement deviation internal resistance of the measuring circuit  Precision  relative metering precision temperature drift per "C	·	
Internal resistance of the measuring circuit  Precision  relative metering precision temperature drift per °C  Auxiliary circuit  number of NC contacts delayed switching number of CO contacts delayed switching number of Dot contacts delayed switching operating frequency with 3RT2 contactor maximum  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 420 V at 50/60 Hz • at 420 V at 50/60 Hz • at 125 V • at 25 V •		
Precision  relative metering precision temperature drift per °C  Auxiliary circuit  number of NC contacts delayed switching number of NC contacts delayed switching number of CO contacts delayed switching operating frequency with 3RT2 contactor maximum  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 at 24 V ampacity of the output relay at DC-13  at 24 V at 125 V at 250		
relative metering precision temperature drift per "C" 0.1 %/" C Auxillary circuit  number of NC contacts delayed switching number of CO contacts delayed switching operating frequency with 3RT2 contactor maximum  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 250 V • at 250 C • at 250 V		ZIII C
temperature drift per °C  Auxiliary circuit  number of NC contacts delayed switching number of NC contacts delayed switching number of NC contacts delayed switching 1 operating frequency with 3RT2 contactor maximum 5 000 1/h  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 240 V at 50/60 Hz at 240 V at 50/60 Hz at 250 V at 50/60 Hz at 250 V at 50/60 Hz at 250 V at 250 V at 50/60 Hz at 250 V at 2		
Auxiliary circuit  number of NC contacts delayed switching number of NC contacts delayed switching number of NC contacts delayed switching operating frequency with 3RT2 contactor maximum  Nain 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 • at 250 V at 50/60 Hz • at 250 V at 50/60 Hz • at 250 V • at		
number of NC contacts delayed switching number of NO contacts delayed switching operating frequency with 3RT2 contactor maximum  Main circuit  number of CO contacts delayed switching operating frequency with 3RT2 contactor maximum  5 000 1/h  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 3 A  ampacity of the output relay at DC-13  • at 24V 1 A  ampacity of the output relay at DC-13  • at 250 V 0.2 A • at 125 V 0.2 A • at 250 V 0.1 A 0.005 A 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-carth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to enductor-conductor surge according to IEC 61000-4-5 • due to enductor-conductor surge according to IEC 61000-4-5 • due to enductor-conductor surge according to IEC 61000-4-5 • due to enductor-conductor surge according to IEC 61000-4-5 • due to enductor-conductor surge according to IEC 61000-4-5 • due to enductor-conductor surge according to IEC 61000-4-5 • due to enductor-conductor surge according to IEC 61000-4-5 • due to enductor-conductor surge according to IEC 61000-4-5 • due to enductor-conductor surge according to IEC 61000-4-3 • deletrostatic discharge according to IEC 61000-4-3 • deletrostatic discharge according to IEC 61000-4-3 • devente unique according to IEC 61000-4-3 • between the voltage supply and other circuits No  Connections/Terminals  product component removable terminal for main circuit		0.1 %/°C
number of NO contacts delayed switching number of CO contacts delayed switching operating frequency with 3RT2 contactor maximum  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 250 V at 50/60 Hz at 250 V at 1250 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-conductor 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 61000-4-3 electrostatic discharge according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Galvanic isolation  electrostatic solation  electrocal interference according to IEC 61000-4-2 between the outputs electrostatic discharge according to IEC 61000-4-2 between the outputs electromagnetic solation  electrostatic discharge according to IEC 61000-4-2 between the outputs electromagnetic solation  electromagnetic solation  electrostatic relation output electromagnetic solation electrostatic relation output electromagnetic solation electromagnetic solation  electromagnetic solation  electromagnetic solation  electromagnetic solation  electromagnetic solation electroma	Auxiliary circuit	
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operating frequency with 3RT2 contactor maximum  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 anapacity of the output relay at DC-13  • at 24 V  anapacity of the output relay at DC-13  • at 250 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 • 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 61000-4-3 electrostatic discharge according to IEC 61000-4-3 electrostatic solation  • between the outputs • between the outputs • between the voltage supply and other circuits  Product component removable terminal for main circuit  Yes  conduct of the conductor removable terminal for main circuit  Yes		0
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 ampacity of the output relay at DC-13 • at 44 V ampacity of the output relay at DC-13 • at 25 V • at 125 V • at 250 V	·	
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 24 V • at 125 V • at 250 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 conductor-certh surge according to IEC 61000-4-2 • due to conductor-certh surge according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2  Galvanic isolation  • between the outputs • between the voltage supply and other circuits  product component removable terminal for main circuit  Yes  conduct component removable terminal for main circuit  1 24 24 V  3 A  3 A  3 A  3 A  3 A  4 A  4 A  5 A  5 A  6 A  6 A  6 A  6 A  7 A  7 A  8 A  8 A  9 A  9 A  9 A  9 A  9 A  9	operating frequency with 3RT2 contactor maximum	5 000 1/h
operating voltage rated value ampacity of the output relay at AC-15  • at 250 V at 50/60 Hz • at 250 V the output relay at DC-13  • at 250 V •	Main circuit	
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  • at 250 V  operational current at 17 V minimum  continuous current of the DIAZED fuse link of the output relay  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  • due to conductor-conductor surge 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 Yes  • between the outputs Yes  • between the voltage supply and other circuits  Product component removable terminal for main circuit  Yes  contended in the ference according to IEC in the contended isolation yes  • between the removable terminal for main circuit  Yes	number of poles for main current circuit	1
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 61000-4-3 electrostatic discharge according to IEC 61000-4-2  Ealvanic isolation  design of the electrical isolation 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  3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3		24 24 V
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 61000-4-3  due to conductor-conductor-conductor surge according to IEC 61000-4-3  due to conductor-conductor-conductor surge according to IEC 61000-4-3  due to conductor-conductor-conductor surge according to IEC 61000-4-3  due to conductor-conduct	ampacity of the output relay at AC-15	
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-cearth 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 6kV contact discharge / 8kV air discharge  Galvanic isolation  design of the electrical isolation galvanic isolation • between the outputs • between the outputs • between the voltage supply and other circuits  Connections/ Terminals  product component removable terminal for main circuit  1 A  1 A  1 A  1 A  1 A  1 A  1 A  1		
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 edue to conductor-conductor surge according to IEC 61000-4-3 electrostatic discharge 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 Yes between the outputs between the voltage supply and other circuits  Product component removable terminal for main circuit  Yes  product component removable terminal for main in 1 A 0.2 A 0.1 A 0.01 A 0.005 A 4 A  1 V/  1 KV 61000-4-5 6 KV contact discharge / 8 KV air discharge 6 KV contact discharge / 8 KV air discharge  Frotective separation  Protective separation  Yes		3 A
<ul> <li>at 125 V</li> <li>at 250 V</li> <li>0.1 A</li> <li>operational current at 17 V minimum</li> <li>0.005 A</li> <li>continuous current of the DIAZED fuse link of the output relay</li> <li>Electromagnetic compatibility</li> <li>conducted interference</li> <li>due to burst according to IEC 61000-4-4</li> <li>due to conductor-earth surge according to IEC 61000-4-5</li> <li>due to conductor-conductor surge according to IEC 61000-4-3</li> <li>field-based interference according to IEC 61000-4-3</li> <li>electrostatic discharge according to IEC 61000-4-2</li> <li>6 kV contact discharge / 8 kV air discharge</li> <li>Galvanic isolation</li> <li>between input and output</li> <li>between the outputs</li> <li>between the voltage supply and other circuits</li> <li>Product component removable terminal for main circuit</li> </ul> Yes		
at 250 V operational current at 17 V minimum continuous current of the DIAZED fuse link of the output relay cutput 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 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		
operational current at 17 V minimum continuous current of the DIAZED fuse link of the output relay  Electromagnetic compatibility  conducted interference		
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  Product component removable terminal for main circuit  Yes  connections/ Terminals		
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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 input and output • between the outputs • between the voltage supply and other circuits  product component removable terminal for main circuit  Yes  product component removable terminal for main circuits  Yes		4 A
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  • due to conductor-conductor surge according to IEC 61000-4-5  field-based interference according to IEC 61000-4-3 10 V/m electrostatic discharge according to IEC 61000-4-2 6 kV contact discharge / 8 kV air discharge  Galvanic isolation  design of the electrical isolation plate of the electri		
• 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     • 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  Product component removable terminal for main circuit  Yes  Product component removable terminal for main circuit  Yes		
<ul> <li>due to conductor-earth surge according to IEC 61000-4-5</li> <li>due to conductor-conductor surge according to IEC 61000-4-5</li> <li>field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2</li> <li>Galvanic isolation</li> <li>design of the electrical isolation galvanic isolation  <ul> <li>between input and output</li> <li>between the outputs</li> <li>between the voltage supply and other circuits</li> </ul> </li> <li>Connections/ Terminals</li> <li>yes</li> <li>circuit</li> </ul> <li>2 kV  <ul> <li>kV</li> <li>ble</li> <li>kV</li> <li>olation</li> <li>yes</li> </ul> </li> <li>Yes</li> <li>Connections/ Terminals</li> <li>Yes</li>		2 kV
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 6 kV contact discharge / 8 kV air discharge  Galvanic isolation  design of the electrical isolation Protective separation  electrostatic discharge / 8 kV air discharge  Frotective separation  Protective separation  yes  between input and output Yes  between the outputs Yes  between the voltage supply and other circuits No  Connections/ Terminals  product component removable terminal for main circuit  Yes	-	
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  Protective separation  Yes  Terminals  product component removable terminal for main circuit  Yes  Yes		Z IV
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  Protective separation  Yes  Terminals  product component removable terminal for main circuit  Yes  Yes		1 kV
electrostatic discharge according to IEC 61000-4-2  Galvanic isolation  design of the electrical isolation  protective separation  Protective separation  Protective separation  Yes  between input and output  between the outputs  between the voltage supply and other circuits  Product component removable terminal for main circuit  Yes		
design of the electrical isolation 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  Yes  Yes  Yes  Yes  Yes		
design of the electrical isolation galvanic isolation	electrostatic discharge according to IEC 61000-4-2	6 kV contact discharge / 8 kV air discharge
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  Yes  Yes  Yes  Yes	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  Yes  No  Yes  Yes  Yes	design of the electrical isolation	Protective separation
between the outputs     between the voltage supply and other circuits  Connections/ Terminals  product component removable terminal for main circuit  Yes  Yes  No	galvanic isolation	
between the voltage supply and other circuits  Connections/ Terminals  product component removable terminal for main circuit  Yes	<ul> <li>between input and output</li> </ul>	Yes
Connections/ Terminals  product component removable terminal for main circuit  Yes	<ul> <li>between the outputs</li> </ul>	Yes
product component removable terminal for main Yes circuit	between the voltage supply and other circuits	No
circuit	Connections/ Terminals	
circuit	product component removable terminal for main	Yes
product component removable terminal for auxiliary  Yes	circuit	
	product component removable terminal for auxiliary	Yes

and control circuit type of electrical connection • for main current circuit screw-type terminals • for auxiliary and control circuit screw-type terminals type of connectable conductor cross-sections 1x (0.5 ... 4.0 mm²), 2x (0.5 ... 2.5 mm²) 1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1.5 mm²) • finely stranded with core end processing • at AWG cables solid 2x (20 ... 14) • at AWG cables stranded 2x (20 ... 14) connectable conductor cross-section solid 0.5 ... 4 mm<sup>2</sup> • finely stranded with core end processing 0.5 ... 2.5 mm<sup>2</sup> 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 0 mm - backwards - upwards 0 mm - downwards 0 mm — at the side 0 mm • for grounded parts 0 mm - forwards - backwards 0 mm - upwards 0 mm - at the side 0 mm downwards 0 mm • for live parts 0 mm - forwards - backwards 0 mm - upwards 0 mm - downwards 0 mm - at the side 0 mm installation altitude at height above sea level maximum 2 000 m ambient temperature -25 ... +60 °C during operation • during storage -40 ... +85 °C -40 ... +85 °C • during transport Certificates/ approvals **Declaration of General Product Approval EMC** Conformity Confirmation











Declaration of Conformity Test Certificates	Marine / Shipping	other
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Type Test Certificates/Test Report

Special Test Certificate





Confirmation

## Railway

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=3UG4622-1AA30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4622-1AA30

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

https://support.industry.siemens.com/cs/ww/en/ps/3UG4622-1AA30

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3UG4622-1AA30&lang=en

**Characteristic: Derating** 

https://support.industry.siemens.com/cs/ww/en/ps/3UG4622-1AA30/manual

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