SIEMENS

Data sheet

Figure similar

3UG4511-1AP20



Analog monitoring relay Phase sequence monitoring 3 x 320...500 V 50...60 Hz AC 1 change-over contact screw terminal Successor product for 3UG3511-1AQ50

product brand name SIRIUS product designation Network monitoring relay with analog setting design of the product 1 function product function 3UG4 Ceneral technical data Phase monitoring relay product function Phase monitoring relay display version LED Yes insulation voltage for overvoltage category III 690 V according to IEC 60664 690 V • with degree of pollution 3 rated value 690 V degree of pollution 3 type of voltage AC • of the control supply voltage AC surge voltage resistance rated value 6 kV protection class IP IP20 sinusoidal half-wave 15g / 11 ms 10 000 000 electrical endurance (operating cycles) at AC-15 at 100 000 00 230 V typical 5 A thermal current of the switching element with 5 A contacts maximum reference code according to IEC 81346-2 wide voltage detection No • undervoltage detection No • undervoltage detection				
design of the product product type designation 3//G4 Central technical data Product function display version LED Yes insulation voltage for overvoltage category III according to IEC 60664 690 V • with degree of pollution 3 rated value 690 V • degree of pollution 3 type of voltage AC • of the control supply voltage AC • of the control supply voltage AC surge voltage resistance rated value 6 kV protection class IP sinusoidal half-wave 15g / 11 ms vibration resistance according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms vibration resistance according to IEC 60068-2-61 1 6 Hz: 15 mm, 6 500 Hz: 2g mechanical service life (operating cycles) typical 100 000 00 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 Substance Prohibitance (Date) Yes Product function No • phase sequence recognition No • phase failure detection Yes • phase fai	product brand name	SIRIUS		
product type designation 3UG4 Ceneral technical data Phase monitoring relay product function Phase monitoring relay display version LED Yes insulation voltage for overvoltage category III according to IEC 60664 690 V • with degree of pollution 3 rated value 690 V degree of pollution 3 type of voltage AC • for monitoring AC of the control supply voltage AC surge voltage resistance rated value 6 kV protection class IP IP20 shock resistance according to IEC 60068-2-6 1 6 Hz: 15 mm, 6 500 Hz: 2g mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles) typical 5 A contacts maximum 5 A reference code according to IEC 81346-2 K Substance Prohibitance (Date) 500/1/2012 Product function No • phase failure detection No • phase failure detection No • overvoltage detection 3 phase No • overvoltage detection 3	product designation	Network monitoring relay with analog setting		
General technical data Phase monitoring relay product function Phase monitoring relay display version LED Yes insulation voltage for overvoltage category III 600 V according to IEC 60664 600 V • with degree of pollution 3 rated value 690 V degree of pollution 5 rated value 690 V • of the control supply voltage AC • of the control supply voltage AC • of the control supply voltage AC surge voltage resistance rated value 6 kV protection class IP IP20 shock resistance according to IEC 60068-2-87 sinusoidal half-wave 15g / 11 ms runchanical service Iif (operating cycles) paical 10 0000 electrical endurance (operating cycles) at AC-15 at 100 000 230 V typical 5 A thermal current of the switching element with 5 A contacts maximum reference code according to IEC 81346-2 K Substance Prohibitance (Date) 05/01/2012 Product function No • phase sequence recognition Yes • phase failure detection No • overvoltage detection 3 phase No • undervoltage detection 3 phase No • ovalage window recognition 3 phase No <th>design of the product</th> <th colspan="3"></th>	design of the product			
product function Phase monitoring relay display version LED Yes insulation voltage for overvoltage category III according to IEC 60664 900 V • with degree of pollution 3 type of voltage AC • for monitoring AC • of the control supply voltage AC surge voltage resistance rated value 6 kV protection class IP Inusoidal half-wave 15g / 11 ms vibration resistance according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms vibration resistance according to IEC 60068-2-6 Inusoidal half-wave 15g / 11 ms vibration resistance according to IEC 60068-2-7 100 000 electrical endurance (operating cycles) at AC-15 at 200 V typical thermal current of the switching element with contacts maximum 5 A reference code according to IEC 81346-2 K Substance Prohibitance (Date) 05/01/2012 Product function No • phase sequence recognition Yes • phase sequence recognition Yes • phase failure detection No • overvoltage detection 3 phase No	product type designation	3UG4		
display version LED Yes insulation voltage for overvoltage category III according to IEC 60664 • with degree of pollution 3 type of voltage 600 V • of monitoring AC • of the control supply voltage AC surge voltage resistance rated value 6 kV protection class IP IP20 shock 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 electrical endurance (operating cycles) at AC-15 at 230 V typical 5 A reference code according to IEC 81346-2 K Substance Prohlbitance (Date) 05/01/2012 Product Function vervoltage detection • overvoltage detection No • overvoltage detection 3 phase No • overvoltage detection 3 phase No • overvoltage detection 3 phase No • overvoltage detection 3 ph	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 type of voltage AC • for monitoring AC • of the control supply voltage AC surge voltage resistance rated value 6 kV 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) ptical 10 0000 electrical endurance (operating cycles) at AC-15 at 20 0000 230 V typical 5 A thermal current of the switching element with contacts maximum 5 A vervoltage detection No • undervoltage detection No • undervoltage detection No • phase failure detection No • overvoltage detection No • overvoltage detection 3 phase No • undervoltage detection 3 phase No • overvoltage detection 3 phase No • overevoltage detection 3 phase No<	product function	Phase monitoring relay		
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degree of pollution 3 type of voltage AC • of the control supply voltage AC • of the control supply voltage AC surge voltage resistance rated value 6 kV 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) typical 10 000 000 electrical endurance (operating cycles) typical 100 000 electrical service life (operating cycles) typical 100 000 thermal current of the switching element with contacts maximum 5 A reference code according to IEC 81346-2 K Substance Prohibitance (Date) 05/01/2012 Product Function No • undervoltage detection No • phase sequence recognition Yes • phase failure detection No • overvoltage detection 3 phase No • undervoltage detection 3 phase				
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• for monitoring AC • of the control supply voltage AC • of the control supply voltage AC surge voltage resistance rated value 6 kV 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 thermal current of the switching element with contacts maximum 5 A reference code according to IEC 81346-2 K Substance Prohibitance (Date) 05/01/2012 Product function No • undervoltage detection No • phase failure detection Yes • phase failure detection Yes • phase failure detection 3 phase No • overvoltage detection 3 phase No • voltage window recognition 3 phase No • voltage window recognition 3 phase No • voltage window recognition 3 phase No • voltage window recognitic on 3 phase No <t< th=""><th>degree of pollution</th><th>3</th></t<>	degree of pollution	3		
• of the control supply voltage AC surge voltage resistance rated value 6 kV 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 200 V typical thermal current of the switching element with contacts maximum 5 A reference code according to IEC 81346-2 K Substance Prohibitance (Date) 05/01/2012 Product Function 0 • undervoltage detection No • phase sequence recognition Yes; available but limited, detection is problematic with high levels of regenerative power recovery • asymmetry detection 3 phase No • voltage detection 3 phases No • voltage detection 3 phase No • voltage detection 3 phase No • voltage detection 3 phase No • undervoltage detection 3 phase No • undervoltage detection 3 phase No • voltage window recognition 3 phase No <	type of voltage			
surge voltage resistance rated value protection class IP IP20 shock resistance according to IEC 60068-2-7 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 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 Substance Prohibitance (Date) 05/01/2012 Product Function • undervoltage detection No • phase sequence recognition Yes • phase failure detection Yes; available but limited, detection is problematic with high levels of regenerative power recovery • asymmetry detection No • overvoltage detection 3 phase No • undervoltage detection 4 phase No • undervoltage detec	 for monitoring 	AC		
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 Substance Prohibitance (Date) 05/01/2012 Product function vervoltage detection • undervoltage detection No • phase sequence recognition Yes • phase failure detection No • overvoltage detection 3 phase No • voltage window recognition 3 phase Yes Control circuit/ Control Yes	 of the control supply voltage 	AC		
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 Substance Prohibitance (Date) 05/01/2012 Product Function No • undervoltage detection No • phase sequence recognition Yes • phase failure detection 3 phase No • voltage detection 3 phase No • adjustable open/closed-circuit current principle No	surge voltage resistance rated value	6 kV		
vibration resistance according to IEC 60068-2-61 6 Hz: 15 mm, 6 500 Hz: 2gmechanical service life (operating cycles) typical10 000 000electrical endurance (operating cycles) at AC-15 at 230 V typical100 000230 V typical100 000thermal current of the switching element with contacts maximum5 Areference code according to IEC 81346-2KSubstance Prohibitance (Date)05/01/2012Product Functionundervoltage detectionNo• undervoltage detectionNo• phase sequence recognitionYes• phase failure detectionNo• overvoltage detectionNo• overvoltage detectionNo• undervoltage detectionNo• overvoltage detectionNo• overvoltage detectionNo• overvoltage detectionNo• overvoltage detection 3 phaseNo• undervoltage detection 3 phaseNo• voltage window recognition 3 phaseNo• voltage window recognition 3 phaseNo• adjustable open/closed-circuit current principleNo• adjustable open/closed-circuit current principleNo• adjustable open/closed-circuit current principleNo• auto-RESETYesControl supply voltage at AC	protection class IP	IP20		
mechanical service life (operating cycles) typical10 000 000electrical endurance (operating cycles) at AC-15 at 230 V typical100 000230 V typical5 Athermal current of the switching element with contacts maximum5 Areference code according to IEC 81346-2KSubstance Prohibitance (Date)05/01/2012Product Function• undervoltage detectionNo• overvoltage detectionNo• phase sequence recognitionYes;• phase failure detectionYes; available but limited, detection is problematic with high levels of regenerative power recovery• asymmetry detection 3 phaseNo• voltage detection 3 phasesNo• voltage window recognition 3 phasesNo• voltage window recognition 3 phaseNo• voltage bener/closed-circuit current principleNo• auto-RESETYesControl supply voltage at ACYes	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 100 000 thermal current of the switching element with contacts maximum reference code according to IEC 81346-2 K Substance Prohibitance (Date) 05/01/2012 Product Function 05/01/2012 product function No • undervoltage detection No • phase sequence recognition Yes • phase failure detection Yes; available but limited, detection is problematic with high levels of regenerative power recovery • asymmetry detection 3 phase No • overvoltage detection 3 phase No • undervoltage detection 3 phase No • outrage window recognition 3 phase No • adjustable open/closed-circuit current principle No • auto-RESET Yes	vibration resistance according to IEC 60068-2-6	1 6 Hz: 15 mm, 6 500 Hz: 2g		
230 V typical 5 A thermal current of the switching element with contacts maximum 5 A reference code according to IEC 81346-2 K Substance Prohibitance (Date) 05/01/2012 Product Function 05/01/2012 undervoltage detection overvoltage detection phase sequence recognition yes phase failure detection overvoltage detection windervoltage detection voltage detection voltage detection voltage detection No overvoltage detection voltage failure detection voltage detection 3 phase voltage window recognition 3 phase voltage window recognition 3 phase voltage window recognition 3 phase voltage Name adjustable open/closed-circuit current principle No auto-RESET Yes Control supply voltage at AC Voltage at AC Voltage at AC Voltage at AC Voltage voltage volta	mechanical service life (operating cycles) typical	10 000 000		
contacts maximum K reference code according to IEC 81346-2 K Substance Prohibitance (Date) 05/01/2012 Product Function • undervoltage detection No • overvoltage detection No • phase sequence recognition Yes; available but limited, detection is problematic with high levels of regenerative power recovery • asymmetry detection No • overvoltage detection 3 phase No • undervoltage detection No • phase failure detection No • phase failure detection No • asymmetry detection No • overvoltage detection 3 phase No • undervoltage detection 3 phases No • undervoltage detection 3 phase No • voltage window recognition 3 phase No • adjustable open/closed-circuit current principle No • auto-RESET Yes Control circuit/ Control Yes		100 000		
Substance Prohibitance (Date) 05/01/2012 Product Function undervoltage detection overvoltage detection other other other detection other de		5 A		
Product Function • undervoltage detection No • overvoltage detection No • overvoltage detection No • phase sequence recognition Yes • phase failure detection Yes; available but limited, detection is problematic with high levels of regenerative power recovery • asymmetry detection No • overvoltage detection 3 phase No • undervoltage detection 3 phases No • voltage window recognition 3 phase No • adjustable open/closed-circuit current principle No • auto-RESET Yes Control circuit/ Control Yes	reference code according to IEC 81346-2	K		
product function No • undervoltage detection No • overvoltage detection No • phase sequence recognition Yes; • phase failure detection Yes; available but limited, detection is problematic with high levels of regenerative power recovery • asymmetry detection No • overvoltage detection 3 phase No • undervoltage detection 3 phases No • voltage window recognition 3 phase No • adjustable open/closed-circuit current principle No • auto-RESET Yes Control circuit/ Control Control supply voltage at AC	Substance Prohibitance (Date)	05/01/2012		
• undervoltage detectionNo• overvoltage detectionNo• phase sequence recognitionYes• phase failure detectionYes; available but limited, detection is problematic with high levels of regenerative power recovery• asymmetry detectionNo• overvoltage detection 3 phaseNo• undervoltage detection 3 phasesNo• voltage window recognition 3 phaseNo• ovltage window recognition 3 phaseNo• adjustable open/closed-circuit current principleNo• auto-RESETYesControl circuit/ ControlYes	Product Function			
• overvoltage detection No • phase sequence recognition Yes • phase failure detection Yes; available but limited, detection is problematic with high levels of regenerative power recovery • asymmetry detection No • overvoltage detection 3 phase No • undervoltage detection 3 phases No • voltage window recognition 3 phase No • adjustable open/closed-circuit current principle No • auto-RESET Yes	product function			
• phase sequence recognition Yes • phase failure detection Yes; available but limited, detection is problematic with high levels of regenerative power recovery • asymmetry detection No • overvoltage detection 3 phase No • undervoltage detection 3 phases No • voltage window recognition 3 phase No • adjustable open/closed-circuit current principle No • auto-RESET Yes	 undervoltage detection 	No		
Phase failure detection Phase failure detection Phase failure detection Yes; available but limited, detection is problematic with high levels of regenerative power recovery No overvoltage detection 3 phase No undervoltage detection 3 phases No voltage window recognition 3 phase voltage window recognition 3 phase voltage open/closed-circuit current principle No auto-RESET Yes Control circuit/ Control Control supply voltage at AC	 overvoltage detection 	No		
easymmetry detection No overvoltage detection 3 phase No undervoltage detection 3 phases No voltage window recognition 3 phase No adjustable open/closed-circuit current principle No auto-RESET Yes	 phase sequence recognition 	Yes		
overvoltage detection 3 phase oundervoltage detection 3 phases oundervoltage detection 3 phases voltage window recognition 3 phase voltage window recognition 3 phase adjustable open/closed-circuit current principle voltage auto-RESET Ves Control circuit/ Control Control supply voltage at AC	phase failure detection			
undervoltage detection 3 phases voltage window recognition 3 phase voltage window recognition 3 phase voltage window recognition 3 phase voltage open/closed-circuit current principle voltage at open/closed-circuit current principle voltage at AC	 asymmetry detection 	No		
voltage window recognition 3 phase No adjustable open/closed-circuit current principle auto-RESET Yes Control circuit/ Control control supply voltage at AC	 overvoltage detection 3 phase 	No		
	 undervoltage detection 3 phases 	No		
	 voltage window recognition 3 phase 	No		
Control circuit/ Control control supply voltage at AC	 adjustable open/closed-circuit current principle 	No		
control supply voltage at AC	auto-RESET	Yes		
	Control circuit/ Control			
• at 50 Hz rated value 320 500 V	control supply voltage at AC			
	• at 50 Hz rated value	320 500 V		

 at 60 Hz rated value 	320 500 V
operating range factor control supply voltage rated	
value at AC at 50 Hz	
 initial value 	1
 full-scale value 	1
operating range factor control supply voltage rated	
value at AC at 60 Hz	
• initial value	1
• full-scale value	1
Measuring circuit	
measurable voltage at AC	320 500 V
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	
	2
number of poles for main current circuit	3
ampacity of the output relay at AC-15	2.4
• at 250 V at 50/60 Hz	3 A 2 A
• at 400 V at 50/60 Hz	3 A
ampacity of the output relay at DC-13	
• at 24 V	1 A
• at 125 V	0.2 A
• at 250 V	0.1 A
operational current at 17 V minimum	5 mA
continuous current of the DIAZED fuse link of the	4 A
output relay	
Electromagnetic compatibility	
conducted interference	
 due to burst according to IEC 61000-4-4 	2 kV
 due to conductor-earth surge according to IEC 	2 kV
61000-4-5	4117
 due to conductor-conductor surge according to IEC 	1 kV
61000-4-5	10 V/m
61000-4-5 field-based interference according to IEC 61000-4-3	10 V/m 6 kV contact discharge / 8 kV air discharge
61000-4-5 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2	10 V/m 6 kV contact discharge / 8 kV air discharge
61000-4-5 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Galvanic isolation	
61000-4-5 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Galvanic isolation galvanic isolation	6 kV contact discharge / 8 kV air discharge
61000-4-5 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Galvanic isolation e between input and output	6 kV contact discharge / 8 kV air discharge Yes
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	6 kV contact discharge / 8 kV air discharge Yes Yes
61000-4-5 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Galvanic isolation e between input and output between the outputs between the voltage supply and other circuits	6 kV contact discharge / 8 kV air discharge Yes
61000-4-5 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Galvanic isolation galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals	6 kV contact discharge / 8 kV air discharge Yes Yes Yes
61000-4-5 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Galvanic isolation galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary	6 kV contact discharge / 8 kV air discharge Yes Yes
61000-4-5 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Galvanic isolation galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit	6 kV contact discharge / 8 kV air discharge Yes Yes Yes
61000-4-5 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Galvanic isolation galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection	6 kV contact discharge / 8 kV air discharge Yes Yes Yes
61000-4-5 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Galvanic isolation galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections	6 kV contact discharge / 8 kV air discharge Yes Yes Yes Screw-type terminals
61000-4-5 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Galvanic isolation galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections • solid	6 kV contact discharge / 8 kV air discharge Yes Yes Yes Screw-type terminals 1x (0.5 4 mm2), 2x (0.5 2.5 mm2)
61000-4-5 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Galvanic isolation galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections • solid • finely stranded with core end processing	6 kV contact discharge / 8 kV air discharge Yes Yes Yes Screw-type terminals 1x (0.5 4 mm2), 2x (0.5 2.5 mm2) 1x (0.5 2.5 mm2), 2x (0.5 1.5 mm2)
61000-4-5 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Galvanic isolation e between input and output between the outputs between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections e solid finely stranded with core end processing at AWG cables solid	6 kV contact discharge / 8 kV air discharge Yes Yes Yes Screw-type terminals 1x (0.5 4 mm2), 2x (0.5 2.5 mm2) 1x (0.5 2.5 mm2), 2x (0.5 1.5 mm2) 2x (20 14)
61000-4-5 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Galvanic isolation galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections • solid • finely stranded with core end processing • at AWG cables solid • at AWG cables stranded	6 kV contact discharge / 8 kV air discharge Yes Yes Yes Screw-type terminals 1x (0.5 4 mm2), 2x (0.5 2.5 mm2) 1x (0.5 2.5 mm2), 2x (0.5 1.5 mm2)
61000-4-5 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Galvanic isolation galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections • solid • finely stranded with core end processing • at AWG cables solid • at AWG cables stranded connectable conductor cross-section	6 kV contact discharge / 8 kV air discharge Yes Yes Yes Yes Screw-type terminals 1x (0.5 4 mm2), 2x (0.5 2.5 mm2) 1x (0.5 2.5 mm2), 2x (0.5 1.5 mm2) 2x (20 14)
61000-4-5 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Galvanic isolation galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections • solid • finely stranded with core end processing • at AWG cables solid • at AWG cables stranded connectable conductor cross-section • solid	6 kV contact discharge / 8 kV air discharge Yes Yes Yes Screw-type terminals 1x (0.5 4 mm2), 2x (0.5 2.5 mm2) 1x (0.5 2.5 mm2), 2x (0.5 1.5 mm2) 2x (20 14) 2x (20 14) 0.5 4 mm ²
61000-4-5 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Galvanic isolation galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections • solid • finely stranded with core end processing • at AWG cables solid • at AWG cables stranded connectable conductor cross-section • solid • at AWG cables stranded • solid • finely stranded with core end processing	6 kV contact discharge / 8 kV air discharge Yes Yes Yes Yes Screw-type terminals 1x (0.5 4 mm2), 2x (0.5 2.5 mm2) 1x (0.5 2.5 mm2), 2x (0.5 1.5 mm2) 2x (20 14)
61000-4-5 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Galvanic isolation all between input and output between the outputs between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections solid finely stranded with core end processing at AWG cables solid at AWG cables stranded connectable conductor cross-section solid finely stranded with core end processing AWG number as coded connectable conductor cross	6 kV contact discharge / 8 kV air discharge Yes Yes Yes Screw-type terminals 1x (0.5 4 mm2), 2x (0.5 2.5 mm2) 1x (0.5 2.5 mm2), 2x (0.5 1.5 mm2) 2x (20 14) 2x (20 14) 0.5 4 mm ²
61000-4-5 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Galvanic isolation all solution between input and output between the outputs between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections solid finely stranded with core end processing at AWG cables solid at AWG cables stranded connectable conductor cross-section solid finely stranded with core end processing AWG number as coded connectable conductor cross section	6 kV contact discharge / 8 kV air discharge Yes Yes Yes screw-type terminals 1x (0.5 4 mm2), 2x (0.5 2.5 mm2) 1x (0.5 2.5 mm2), 2x (0.5 1.5 mm2) 2x (20 14) 0.5 4 mm² 0.5 2.5 mm²
61000-4-5 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Galvanic isolation galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections • solid • finely stranded with core end processing • at AWG cables solid • at AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing • at AWG cables stranded AWG number as coded connectable conductor cross section • solid	6 kV contact discharge / 8 kV air discharge Yes Yes Yes Screw-type terminals 1x (0.5 4 mm2), 2x (0.5 2.5 mm2) 1x (0.5 2.5 mm2), 2x (0.5 1.5 mm2) 2x (20 14) 0.5 4 mm² 0.5 4 mm² 20 14
61000-4-5 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Galvanic isolation agalvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections • solid • finely stranded with core end processing • at AWG cables solid • at AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing • at AWG cables stranded • solid • finely stranded with core end processing • solid • finely stranded with core end processing • solid • solid • solid • solid • solid • solid • solid • stranded	6 kV contact discharge / 8 kV air discharge Yes Yes Yes Yes Screw-type terminals 1x (0.5 4 mm2), 2x (0.5 2.5 mm2) 1x (0.5 2.5 mm2), 2x (0.5 1.5 mm2) 2x (20 14) 0.5 4 mm² 0.5 4 mm² 20 14 20 14
61000-4-5 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Galvanic isolation all between input and output between the outputs between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections solid finely stranded with core end processing at AWG cables solid at AWG cables stranded connectable conductor cross-section solid finely stranded with core end processing at AWG cables stranded connectable conductor cross-section solid finely stranded with core end processing solid finely stranded with core end processing Solid solid solid stranded with core end processing AWG number as coded connectable conductor cross section solid stranded tightening torque with screw-type terminals	6 kV contact discharge / 8 kV air discharge Yes Yes Yes Screw-type terminals 1x (0.5 4 mm2), 2x (0.5 2.5 mm2) 1x (0.5 2.5 mm2), 2x (0.5 1.5 mm2) 2x (20 14) 0.5 4 mm² 0.5 4 mm² 20 14
61000-4-5 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Galvanic isolation all solution all solution between input and output between the outputs between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections solid finely stranded with core end processing at AWG cables solid at AWG cables stranded connectable conductor cross-section solid finely stranded with core end processing at AWG cables stranded connectable conductor cross-section solid finely stranded with core end processing solid solid solid stranded with core end processing AWG number as coded connectable conductor cross section solid stranded tightening torque with screw-type terminals Installation/ mounting/ dimensions	6 kV contact discharge / 8 kV air discharge Yes Yes Yes Yes Screw-type terminals 1x (0.5 4 mm2), 2x (0.5 2.5 mm2) 1x (0.5 2 fmm2), 2x (0.5 1.5 mm2) 2x (20 14) 0.5 4 mm² 0.5 4 mm² 0.5 2.5 mm² 20 14 20 14 0.8 1.2 N·m
61000-4-5 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Galvanic isolation all solation all between input and output between the outputs between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections solid finely stranded with core end processing at AWG cables solid at AWG cables stranded connectable conductor cross-section solid finely stranded with core end processing AWG number as coded connectable conductor cross section solid stranded tightening torque with screw-type terminals Installation/ mounting/ dimensions mounting position	6 kV contact discharge / 8 kV air discharge Yes Yes Yes screw-type terminals 1x (0.5 4 mm2), 2x (0.5 2.5 mm2) 1x (0.5 2.5 mm2), 2x (0.5 1.5 mm2) 2x (20 14) 2x (20 14) 0.5 4 mm² any
61000-4-5 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Galvanic isolation all solution all solution between input and output between the outputs between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections solid finely stranded with core end processing at AWG cables solid at AWG cables stranded connectable conductor cross-section solid finely stranded with core end processing at AWG cables stranded connectable conductor cross-section solid finely stranded with core end processing solid solid solid stranded with core end processing AWG number as coded connectable conductor cross section solid stranded tightening torque with screw-type terminals Installation/ mounting/ dimensions	6 kV contact discharge / 8 kV air discharge Yes Yes Yes Yes Screw-type terminals 1x (0.5 4 mm2), 2x (0.5 2.5 mm2) 1x (0.5 2 fmm2), 2x (0.5 1.5 mm2) 2x (20 14) 0.5 4 mm² 0.5 4 mm² 0.5 2.5 mm² 20 14 20 14 0.8 1.2 N·m

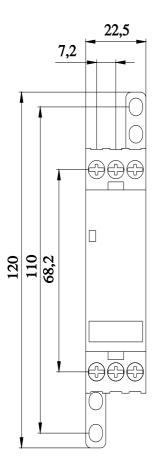
width			22.5	mm		
depth			91 m	m		
required spacing						
 with side-by-side 	de mounting					
— forwards			0 mn	ı		
- backward	ls		0 mn	า		
— upwards			0 mn	า		
- downward	ds		0 mn	า		
— at the side	e		0 mn	ı		
 for grounded p 	oarts					
— forwards			0 mn	ı		
- backward	ls		0 mn	ı		
— upwards			0 mn	ı		
— at the side	е		0 mn	ı		
— downward			0 mn	ı		
 for live parts 						
— forwards			0 mn	1		
— backward	s		0 mn			
— upwards			0 mn			
— downward	ds		0 mn			
— at the side			0 mn			
Ambient conditions	6		0 mm	,		
			0.00	, ,		
	t height above sea leve	maximum	2 00	Jm		
ambient temperatu						
 during operation 				. +60 °C		
 during storage 				. +85 °C		
 during transpo 			-40.	. +85 °C		
Certificates/ approva	ls					
General Product A	pproval				EMC	Declaration of Conformity
(m)	Confirmation	ŝ		r M F	A	UK
(\mathbf{m})		(VL)		FHI	<u>/</u> ()	
		\sim		LIIL	RCM	
		02				
Declaration of	Test Certificates			Marine / Shipping		other
Conformity	rest certificates			manne / Snipping		other
~ ~	Type Test Certific-	Special Test Ce	<u>rtific-</u>	Lloude	A PARTICIPAL MARCH	Confirmation
CE	ates/Test Report	ate		Register		
EG-Konf.				LRS	Divolcom	
				202		
Railway						

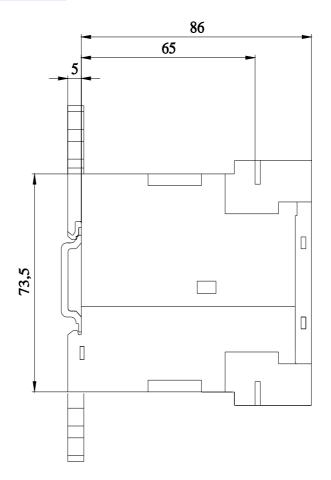
Vibration and Shock

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=3UG4511-1AP20
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4511-1AP20
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3UG4511-1AP20
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)

12/10/2022

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG4511-1AP20&lang=en Characteristic: Derating https://support.industry.siemens.com/cs/ww/en/ps/3UG4511-1AP20/manual





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