SIEMENS

Data sheet

3UG4511-1AN20



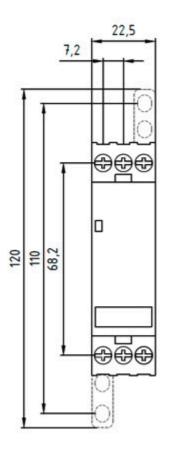
Analog monitoring relay Phase sequence monitoring 3 x 160...260 V 50...60 Hz AC 1 change-over contact screw terminal Successor product for 3UG3511-1AQ50 or 3UG3511-1AV50

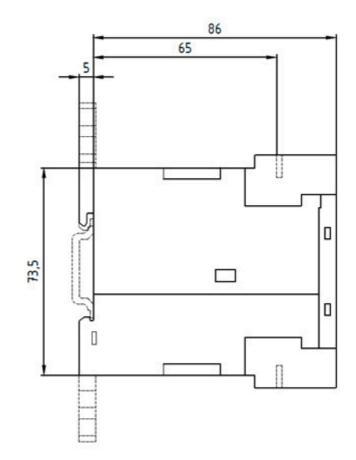
Figure	similar

product brand name	SIRIUS
product brand name	
product designation	Network monitoring relay with analog setting 1 function
design of the product	3UG4
product type designation	3064
General technical data	
product function	Phase monitoring relay
display version LED	Yes
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	
 for monitoring 	AC
 of the control supply voltage 	AC
surge voltage resistance rated value	6 kV
protection class IP	IP20
shock resistance acc. to IEC 60068-2-27	sinusoidal half-wave 15g / 11 ms
vibration resistance acc. to IEC 60068-2-6	1 6 Hz: 15 mm, 6 500 Hz: 2g
mechanical service life (switching cycles) typical	10 000 000
electrical endurance (switching cycles) at AC-15 at 230 V typical	100 000
thermal current of the switching element with contacts maximum	5 A
reference code acc. to IEC 81346-2	К
Product Function	
product function	
 undervoltage detection 	No
 overvoltage detection 	No
 phase sequence recognition 	Yes
 phase failure detection 	No
 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	
• at 50 Hz rated value	160 260 V
at 60 Hz rated value	160 260 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
Auxiliary circuit	
number of NC contacts delayed switching	0
number of NO contacts delayed switching	0
number of CO contacts delayed switching	1
operating frequency with 3RT2 contactor maximum	5 000 1/h
Main circuit	
number of poles for main current circuit	3
Outputs	•
ampacity of the output relay at AC-15	
• at 250 V at 50/60 Hz	3 A
• at 250 V at 50/60 Hz	3 A
ampacity of the output relay at DC-13	
• at 24 V	1A
• at 24 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	
Electromagnetic compatibility conducted interference	
conducted interference	2 kV
conducted interferencedue to burst acc. to IEC 61000-4-4	2 kV 2 kV
 conducted interference due to burst acc. to IEC 61000-4-4 due to conductor-earth surge acc. to IEC 61000-4-5 	2 kV
conducted interferencedue to burst acc. to IEC 61000-4-4	
 conducted interference due to burst acc. to IEC 61000-4-4 due to conductor-earth surge acc. to IEC 61000-4-5 due to conductor-conductor surge acc. to IEC 	2 kV
 conducted interference due to burst acc. to IEC 61000-4-4 due to conductor-earth surge acc. to IEC 61000-4-5 due to conductor-conductor surge acc. to IEC 61000-4-5 	2 kV 1 kV
conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 field-based interference acc. to IEC 61000-4-3	2 kV 1 kV 10 V/m
conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 field-based interference acc. to IEC 61000-4-3 electrostatic discharge acc. to IEC 61000-4-2	2 kV 1 kV 10 V/m
conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 field-based interference acc. to IEC 61000-4-3 electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation	2 kV 1 kV 10 V/m
conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 field-based interference acc. to IEC 61000-4-3 electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation galvanic isolation	2 kV 1 kV 10 V/m 6 kV contact discharge / 8 kV air discharge
conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 field-based interference acc. to IEC 61000-4-3 electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation • between input and output	2 kV 1 kV 10 V/m 6 kV contact discharge / 8 kV air discharge
conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 field-based interference acc. to IEC 61000-4-3 electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation • between input and output • between the outputs	2 kV 1 kV 10 V/m 6 kV contact discharge / 8 kV air discharge
 conducted interference due to burst acc. to IEC 61000-4-4 due to conductor-earth surge acc. to IEC 61000-4-5 due to conductor-conductor surge acc. to IEC 61000-4-5 field-based interference acc. to IEC 61000-4-3 electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation between input and output between the outputs between the voltage supply and other circuits 	2 kV 1 kV 10 V/m 6 kV contact discharge / 8 kV air discharge
conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 field-based interference acc. to IEC 61000-4-3 electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product function removable terminal for auxiliary and control circuit	2 kV 1 kV 10 V/m 6 kV contact discharge / 8 kV air discharge Yes Yes Yes
conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 field-based interference acc. to IEC 61000-4-3 electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation øbetween input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product function removable terminal for auxiliary and	2 kV 1 kV 10 V/m 6 kV contact discharge / 8 kV air discharge Yes Yes Yes
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conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 field-based interference acc. to IEC 61000-4-3 electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product function removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections • solid	2 kV 1 kV 10 V/m 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)
conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 field-based interference acc. to IEC 61000-4-3 electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product function removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections	2 kV 1 kV 10 V/m 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)
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conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 • field-based interference acc. to IEC 61000-4-3 electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product function 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	2 kV 1 kV 10 V/m 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)
conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 field-based interference acc. to IEC 61000-4-3 electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation øbetween input and output øbetween the outputs øbetween the voltage supply and other circuits Connections/ Terminals product function removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections øsolid at AWG cables solid øat AWG cables solid øat AWG cables solid øat AWG cables solid	2 kV 1 kV 10 V/m 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)
conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 field-based interference acc. to IEC 61000-4-3 electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product function 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 • connectable conductor cross-section solid • connectable conductor cross-section solid • connectable conductor cross-section finely stranded with core end processing	2 kV 1 kV 10 V/m 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) 2x (20 14) 0.5 4 mm ²
conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 field-based interference acc. to IEC 61000-4-3 electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product function 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 • connectable conductor cross-section solid	2 kV 1 kV 10 V/m 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) 2x (20 14) 0.5 4 mm ² 0.5 2.5 mm ²
conducted interference • due to burst acc. to IEC 61000-4-4 • due to conductor-earth surge acc. to IEC 61000-4-5 • due to conductor-conductor surge acc. to IEC 61000-4-5 field-based interference acc. to IEC 61000-4-3 electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product function 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 • connectable conductor cross-section solid • AWG number as coded connectable conductor cross section solid • AWG number as coded connectable conducto	2 kV 1 kV 10 V/m 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 mm ² 0.5 2.5 mm ² 20 14

nstallation/ mounting/ dimensions					
mounting position		any			
fastening method		snap-on mounting			
height		83 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 0 mm			
— at the side		0 mm			
— downwards		0 mm			
 for live parts 		U IIIII			
- forwards		0 mm			
— backwards		0 mm			
— upwards		0 mm			
— downwards		0 mm			
— at the side		0 mm			
- at the side					
		0.000			
installation altitude at height above sea level ma	aximum	2 000 m			
 ambient temperature during operation 		-25 +60 °C			
 ambient temperature during storage 		-40 +85 °C			
ambient temperature during transport		-40 +85 °C			
		-40 100 0			
Certificates/ approvals					
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