## SIEMENS

## Data sheet

## 3UG4511-1AQ20



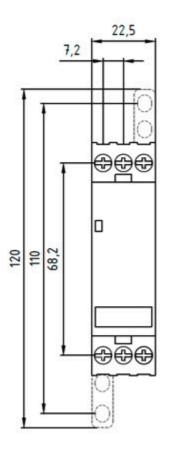
Analog monitoring relay Phase sequence monitoring 3 x 420...690 V 50...60 Hz AC 1 change-over contact screw terminal

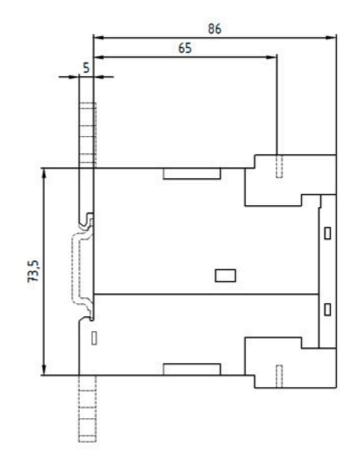
Figure similar
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product brand name	SIRIUS			
product designation	Network monitoring relay with analog setting			
design of the product	1 function			
product type designation	3UG4			
General technical data				
product function	Phase monitoring relay			
display version LED	Yes			
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			
type of voltage				
<ul> <li>for monitoring</li> </ul>	AC			
<ul> <li>of the control supply voltage</li> </ul>	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				
<ul> <li>undervoltage detection</li> </ul>	No			
<ul> <li>overvoltage detection</li> </ul>	No			
<ul> <li>phase sequence recognition</li> </ul>	Yes			
<ul> <li>phase failure detection</li> </ul>	No			
<ul> <li>asymmetry detection</li> </ul>	No			
<ul> <li>overvoltage detection 3 phase</li> </ul>	No			
<ul> <li>undervoltage detection 3 phases</li> </ul>	No			
<ul> <li>voltage window recognition 3 phase</li> </ul>	No			
<ul> <li>adjustable open/closed-circuit current principle</li> </ul>	No			
auto-RESET	Yes			
Control circuit/ Control				

control supply voltage at AC	
• at 50 Hz rated value	420 690 V
at 60 Hz rated value	420 690 V
operating range factor control supply voltage rated value at AC at 50 Hz	
<ul> <li>initial value</li> </ul>	1
full-scale value	1
operating range factor control supply voltage rated value at AC at 60 Hz	
<ul> <li>initial value</li> </ul>	1
<ul> <li>full-scale value</li> </ul>	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 25 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 acc. to IEC 61000-4-4	2 kV
	2 KV
	2 KV 2 KV
• due to conductor-earth surge acc. to IEC 61000-4-5	
	2 kV
<ul> <li>due to conductor-earth surge acc. to IEC 61000-4-5</li> <li>due to conductor-conductor surge acc. to IEC</li> </ul>	2 kV
<ul> <li>due to conductor-earth surge acc. to IEC 61000-4-5</li> <li>due to conductor-conductor surge acc. to IEC 61000-4-5</li> </ul>	2 kV 1 kV
due to conductor-earth surge acc. to IEC 61000-4-5     o 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
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
due to conductor-earth surge acc. to IEC 61000-4-5     o 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
• 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
• 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
<ul> <li>due to conductor-earth surge acc. to IEC 61000-4-5</li> <li>due to conductor-conductor surge acc. to IEC 61000-4-5</li> <li>field-based interference acc. to IEC 61000-4-3</li> <li>electrostatic discharge acc. to IEC 61000-4-2</li> <li>Galvanic isolation</li> <li>between input and output</li> <li>between the outputs</li> </ul>	2 kV 1 kV 10 V/m 6 kV contact discharge / 8 kV air discharge Yes Yes
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<ul> <li>due to conductor-earth surge acc. to IEC 61000-4-5</li> <li>due to conductor-conductor surge acc. to IEC 61000-4-5</li> <li>field-based interference acc. to IEC 61000-4-3</li> <li>electrostatic discharge acc. to IEC 61000-4-2</li> <li>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         <ul> <li>product function removable terminal for auxiliary and control circuit</li> <li>type of electrical connection</li> <li>type of connectable conductor cross-sections                 <ul> <li>solid</li> <li>finely stranded with core end processing</li> </ul> </li> </ul> </li> </ul>	2 kV 1 kV 10 V/m 6 kV contact discharge / 8 kV air discharge Yes Yes Yes Yes 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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nstallation/ mounting/ dimensions					
mounting position	any				
fastening method	snap-o	on mounting			
height	83 mm	า			
width	22.5 m	nm			
depth	91 mm	า			
required spacing					
<ul> <li>with side-by-side mounting</li> </ul>					
— forwards	0 mm				
— backwards	0 mm				
— upwards	0 mm				
— downwards	0 mm				
— at the side	0 mm	0 mm			
<ul> <li>for grounded parts</li> </ul>					
— forwards	0 mm	0 mm			
— backwards	0 mm				
— upwards	0 mm				
— at the side	0 mm				
— downwards	0 mm				
<ul> <li>for live parts</li> </ul>					
— forwards	0 mm				
— backwards	0 mm				
— upwards	0 mm				
— downwards	0 mm				
— at the side	0 mm				
mbient conditions					
installation altitude at height above sea level maximum	2 000	m			
<ul> <li>ambient temperature during operation</li> </ul>	-25	+60 °C			
ambient temperature during storage	-40	+85 °C			
	-40 +85 °C -40 +85 °C				
<ul> <li>ambient temperature during transport</li> </ul>	-40	+85 °C			
ambient temperature during transport ertificates/ approvals	-40	+85 °C	_	_	
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last modified:

12/21/2020 🖸