## SIEMENS

## Data sheet

## 3UG4511-2BQ20



Analog monitoring relay Phase sequence monitoring 3 x 420...690 V 50...60 Hz AC 2 change-over contacts spring-type connection system

product brand name	SIRIUS			
product brand name	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				
for monitoring	AC			
<ul> <li>of the control supply voltage</li> </ul>	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 (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 according to IEC 81346-2	К			
Substance Prohibitance (Date)	05/01/2012			
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	
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	690 420 V
Auxiliary circuit	000 920 V
number of NC contacts delayed switching	0
number of NO contacts delayed switching	0
number of CO contacts delayed switching	2
operating frequency with 3RT2 contactor maximum	5 000 1/h
Main circuit	
number of poles for main current circuit	3
ampacity of the output relay at AC-15	
• at 250 V at 50/60 Hz	3 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
<ul> <li>due to burst according to IEC 01000-4-4</li> <li>due to conductor-earth surge according to IEC</li> </ul>	2 kV
61000-4-5	
due to conductor-conductor surge according to IEC     61000-4-5	1 kV
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	
galvanic isolation	
<ul> <li>between input and output</li> </ul>	Yes
<ul> <li>between the outputs</li> </ul>	Yes
<ul> <li>between the voltage supply and other circuits</li> </ul>	Yes
Connections/ Terminals	
product component removable terminal for auxiliary and control circuit	Yes
type of electrical connection	spring-loaded terminals
type of connectable conductor cross-sections	
• solid	2x (0.25 1.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2 x (0.25 1.5 mm <sup>2</sup> )
<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.25 1.5 mm²)
<ul> <li>at AWG cables solid</li> </ul>	2x (24 16)
<ul> <li>at AWG cables stranded</li> </ul>	2x (24 16)
connectable conductor cross-section	
• solid	0.25 1.5 mm <sup>2</sup>
<ul> <li>finely stranded with core end processing</li> </ul>	0.25 1.5 mm <sup>2</sup>
finely stranded without core end processing	0.25 1.5 mm²
AWG number as coded connectable conductor cross	
section	
	24 16
section	24 16 24 16

fastening method	any		
	snap-on mounting		
height	94 mm		
width	22.5 mm		
depth	91 mm		
e with side by side mounting			
<ul> <li>with side-by-side mounting</li> <li>forwards</li> </ul>	0 mm		
— backwards	0 mm		
— upwards	0 mm		
— downwards	0 mm		
— at the side	0 mm		
for grounded parts	0 mm		
— forwards	0 mm		
— backwards	0 mm		
— upwards	0 mm		
— at the side	0 mm		
— downwards	0 mm		
• for live parts	0 mm		
— 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		
ambient temperature			
during operation	-25 +60 °C		
• during storage	-40 +85 °C		
during transport	-40 +85 °C		
ertificates/ approvals			
General Product Approval		EMC	Declaration of
The second s			Conformity
Confirmation	гпг	A	()
	/ FHI	- AVA	
		<u>v</u>	
	LIIL	RCM	EG-Konf.
	LIIL	RCM	EG-Konf.
Test Certificates Marine / Shi		RCM	
Test Certificates Marine / Shi	<b>LIIL</b>	RCM	EG-Konf. Railway
Special Test Certific- Type Test Certific-	pping	other Confirmation	
			Railway
Special Test Certific-	pping		Railway
Special Test Certific- ate ates/Test Report			Railway
Special Test Certific- ate         Type Test Certific- ates/Test Report         Hoyds			Railway
Special Test Certific- ate ates/Test Report			Railway
Special Test Certific- ate ates/Test Report			Railway
Special Test Certific- ate <u>ates/Test Report</u>	DINV-GL ENVILLEDING		Railway
Special Test Certific- ate ates/Test Report	)		Railway
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Special Test Certific- ate Type Test Certific- ates/Test Report	,) ct?mlfb=3UG4511-2BQ20 ult.aspx?lang=en&mlfb=3UG45 s, FAQs,)	Confirmation	Railway
Special Test Certific- ate ates/Test Report	,) ct?mlfb=3UG4511-2BQ20 ult.aspx?lang=en&mlfb=3UG45 s, FAQs,) I-2BQ20 gs, 3D models, device circuit	Confirmation	Railway Vibration and Shock

https://support.industry.siemens.com/cs/ww/en/ps/3UG4511-2BQ20/manual



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