## SIEMENS

## Data sheet

## 3UG4511-2BQ20



III product phase-out III The preferred successor type is 3UG5511-2BR20 phase sequence monitoring 3x420-690 V 2 CO analog monitoring relay phase sequence monitoring 3 x 420...690 V 50...60 Hz AC 2 changeover contacts spring-loaded connection system

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product brand name	SIRIUS			
product brand name				
product designation	Line monitoring relay			
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 (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	К			
Substance Prohibitance (Date)	05/01/2012			
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol - 79-94-7			
Product Function				
product function				
undervoltage detection	No			
overvoltage detection	No			
<ul> <li>phase sequence recognition</li> </ul>	Yes			
phase failure detection	No			
asymmetry detection	No			
<ul> <li>overvoltage detection 3 phase</li> </ul>	No			
undervoltage detection 3 phases	No			
<ul> <li>voltage window recognition 3 phase</li> </ul>	No			
adjustable open/closed-circuit current principle	No			
• auto-RESET	Yes			
Control circuit/ Control				

control supply voltage at AC				
<ul> <li>at 50 Hz rated value</li> </ul>	420 690 V			
<ul> <li>at 60 Hz rated value</li> </ul>	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				
<ul> <li>initial value</li> </ul>	1			
• full-scale value	1			
Measuring circuit				
measurable voltage at AC	420 690 V			
response time maximum	450 ms			
Auxiliary circuit				
number of NC contacts delayed switching	0			
number of NO contacts delayed switching	0			
number of CO contacts				
<ul> <li>for auxiliary contacts</li> </ul>	2			
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			
	37			
ampacity of the output relay at DC-13 • at 24 V	1 A			
• at 24 V • 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 output relay	4 A			
Electromagnetic compatibility				
conducted interference				
due to burst according to IEC 61000-4-4	2 kV			
<ul> <li>due to conductor-earth surge according to IEC 61000-4-5</li> </ul>	2 kV			
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				
between input and output	Yes			
between the outputs	Yes			
<ul> <li>between the voltage supply and other circuits</li> </ul>	Yes			
Connections/ Terminals				
product component removable terminal for auxiliary and	Yes			
control circuit				
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 mm²)			
<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.25 1.5 mm²)			
<ul> <li>for AWG cables solid</li> </ul>	2x (24 16)			
<ul> <li>for AWG cables stranded</li> </ul>	2x (24 16)			
connectable conductor cross-section				
• solid	0.25 1.5 mm²			
<ul> <li>finely stranded with core end processing</li> </ul>	0.25 1.5 mm²			
<ul> <li>finely stranded without core end processing</li> </ul>	0.25 1.5 mm²			
AWG number as coded connectable conductor cross section				

• solid			24	16			
<ul> <li>stranded</li> </ul>			24	16			
Installation/ mounting/	dimensions						
mounting position			any				
fastening method		snap-on mounting					
height		94 mm					
width		22.5 n	nm				
depth			91 mm				
required spacing							
<ul> <li>with side-by-side</li> </ul>							
— forwards			0 mm				
— backwards	6		0 mm				
— upwards			0 mm				
- downward	S		0 mm				
— at the side	:		0 mm				
<ul> <li>for grounded pa</li> </ul>	arts						
— forwards			0 mm				
- backwards	6		0 mm				
— upwards			0 mm				
— at the side	;		0 mm				
— downward	S		0 mm				
<ul> <li>for live parts</li> </ul>							
— forwards			0 mm				
— backwards	6		0 mm				
— upwards			0 mm				
- downward	s		0 mm				
— at the side	•		0 mm				
Ambient conditions							
installation altitude at h	neight above sea level max	imum	2 000 m				
ambient temperature	1						
<ul> <li>during operatior</li> </ul>	า		-25	+60 °C			
<ul> <li>during storage</li> </ul>			-40	+85 °C			
<ul> <li>during transport</li> </ul>	t		-40	+85 °C			
Approvals Certificates							
General Product App	proval						
UK CA	CE EG-Konf.			<u>Confirmation</u>	UL.	EAC	
EMV		Test Certificate	es		Marine / Shipping		
RCM	KC	<u>Special Test Ce</u> ate	ertific-	Type Test Certific- ates/Test Report		Llovd's Register urs	
other	Railway	Environment					
Confirmation	Special Test Certific- ate	Environmental firmations	<u>Con-</u>				

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3UG4511-2BQ20 Cax online generator

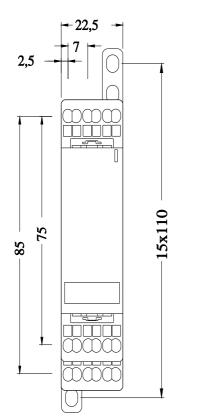
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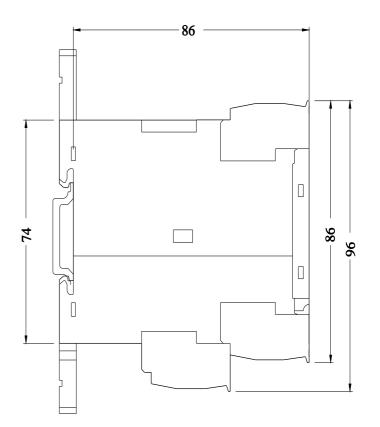
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3UG4511-2BQ20

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3UG4511-2BQ20&lang=en

Characteristic: Derating

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