## SIEMENS

## Data sheet

## 3UG4511-1AN20



!!! product phase-out !!! The preferred successor type is 3UG5511-1AR20 phase failure and sequence monitoring 3x160-260 V 1 changeover contact analog monitoring relay phase sequence monitoring 3 x 160...260 V 50...60 Hz AC 1 changeover contact screw terminal

Fi	q	ur	e	si	m	ila	ar
	-	-	_				

we duct buy ad your o	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					
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 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				
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					
<ul> <li>undervoltage detection</li> </ul>	No				
<ul> <li>overvoltage detection</li> </ul>	No				
<ul> <li>phase sequence recognition</li> </ul>	Yes				
phase failure detection	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	160 260 V			
• at 60 Hz rated value	160 260 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				
initial value	1			
• full-scale value	1			
Measuring circuit				
measurable voltage at AC	160 260 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				
	4			
for auxiliary contacts	1			
delayed switching	1			
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 output	4 A			
relay				
Electromagnetic compatibility				
conducted interference				
<ul> <li>due to burst according to IEC 61000-4-4</li> </ul>	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 control circuit	Yes			
type of electrical connection	screw terminal			
type of connectable conductor cross-sections				
• solid	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)			
<ul> <li>finely stranded with core end processing</li> </ul>				
since, enances that one one proceeding				
<ul> <li>for AWG cables solid</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) 2x (20 14)			
<ul> <li>for AWG cables solid</li> <li>for AWG cables stranded</li> </ul>	2x (20 14)			
for AWG cables stranded				
for AWG cables stranded     connectable conductor cross-section	2x (20 14) 2x (20 14)			
for AWG cables stranded  connectable conductor cross-section      solid	2x (20 14) 2x (20 14) 0.5 4 mm <sup>2</sup>			
for AWG cables stranded  connectable conductor cross-section      solid      finely stranded with core end processing	2x (20 14) 2x (20 14)			
for AWG cables stranded      connectable conductor cross-section <ul> <li>solid</li> <li>finely stranded with core end processing</li> </ul> <li>AWG number as coded connectable conductor cross section</li>	2x (20 14) 2x (20 14) 0.5 4 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup>			
for AWG cables stranded     connectable conductor cross-section <ul> <li>solid</li> <li>finely stranded with core end processing</li> </ul> <li>AWG number as coded connectable conductor cross</li>	2x (20 14) 2x (20 14) 0.5 4 mm <sup>2</sup>			

tightening torque with screw-type terminals		0.8 1.2 N·m				
Installation/ mounting/						
mounting position			any			
fastening method			snap-on mountin	q		
height			83 mm	<b>,</b>		
width			22.5 mm			
depth			91 mm			
required spacing						
<ul> <li>with side-by-side</li> </ul>	emounting					
— forwards	-		0 mm			
— backwards			0 mm			
— upwards			0 mm			
downwards	6		0 mm			
— at the side			0 mm			
<ul> <li>for grounded par</li> </ul>	ts					
— forwards			0 mm			
— backwards			0 mm			
— upwards			0 mm			
— at the side			0 mm			
— downwards	6		0 mm			
<ul> <li>for live parts</li> </ul>						
– forwards			0 mm			
- backwards			0 mm			
— upwards			0 mm			
— downwards	6		0 mm			
— at the side			0 mm			
Ambient conditions						
installation altitude at h	eight above sea level max	imum	2 000 m			
ambient temperature						
<ul> <li>during operation</li> </ul>			-25 +60 °C			
<ul> <li>during storage</li> </ul>			-40 +85 °C			
<ul> <li>during transport</li> </ul>			-40 +85 °C			
Approvals Certificates						
General Product App	roval					
	<b>Confirmation</b>	~ ~ ~		K	ŝ	r M F
$(\mathbf{m})$		CE	ž		(VL)	FHI
ccc		EG-Konf.		K	<u> </u>	LIIL
			-			
EMV		Test Certificate	es		Marine / Shipping	
_						
A	<u>KC</u>	Type Test Cer ates/Test Rep		<u>est Certific-</u> ate	煮煮	Llovds
<u>(</u> )					DNV	Register
RCM					DNV	LRS
		_				
other	Railway	Environment				
Confirmation	Special Test Certific-	Environmental	Con-			
	ate	firmations				

Cax online generator

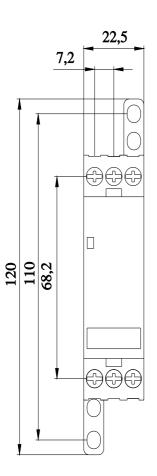
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4511-1AN20

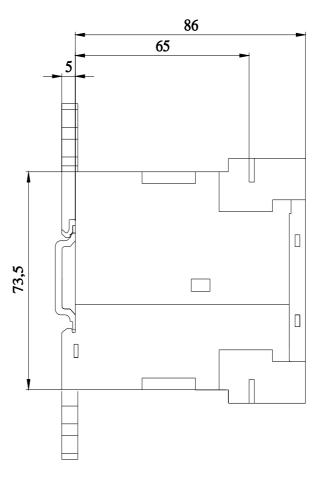
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3UG4511-1AN20

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3UG4511-1AN20&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3UG4511-1AN20/manual





last modified:

4/8/2024 🖸