SIEMENS

Data sheet

3UG4511-1AQ20



III product phase-out III The preferred successor type is 3UG5511-1AR20 phase sequence monitoring 3x420-690 V 1 CO analog monitoring relay phase sequence monitoring 3 x 420...690 V 50...60 Hz AC 1 changeover contact screw terminal

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product brand name	SIRIUS		
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	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		
 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 	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	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	•		
for auxiliary contacts	1		
delayed switching	1		
	5 000 1/h		
operating frequency with 3RT2 contactor maximum 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			
 due to burst according to IEC 61000-4-4 	2 kV		
 due to conductor-earth surge according to IEC 61000-4-5 	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		
 between the voltage supply and other circuits 	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)		
 finely stranded with core end processing 			
Intery stranded with core and processing for AWG cables solid	1x (0.5 2.5 mm ²), 2x (0.5 1.5 mm ²)		
	2x (20 14)		
for AWG cables stranded	2x (20 14)		
connectable conductor cross-section	0.5 4 mm²		
• solid	0.5 4 mm ²		
finely stranded with core end processing	0.5 2.5 mm²		
AWG number as coded connectable conductor cross section			
• solid	20 14		
 stranded 	20 14		

tightening torque with screw-type terminals				1.2 N·m		
Installation/ mounting/	dimensions					
mounting position	· · · · · · · · · · · · · · · · · · ·		any			
fastening method			snap-on mounting			
height		83 m	n			
width		22.5 (nm			
depth			91 m	n		
required spacing						
with side-by-side mounting						
- forwards			0 mm			
— backwards			0 mm			
— upwards			0 mm			
- downwards	3		0 mm			
— at the side			0 mm			
 for grounded par 	ts					
— forwards			0 mm			
— backwards			0 mm			
— upwards			0 mm			
— at the side			0 mm			
— downwards	3		0 mm			
 for live parts 						
— forwards			0 mm			
— backwards			0 mm			
— upwards			0 mm			
- downwards	3		0 mm			
— at the side			0 mm			
Ambient conditions						
installation altitude at h	eight above sea level max	imum	2 000	m		
ambient temperature						
 during operation 		-25	. +60 °C			
 during storage 			-40	. +85 °C		
 during transport 			-40	. +85 °C		
Approvals Certificates						
General Product App	roval					
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		(ac)			(VL)	FHI
EG-Konf.	CA	ccc			Ŭ.	LIIL
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RCM					DNV	LRS
other	Railway	Environment				
Confirmation	Special Test Certific-	Environmental firmations	<u>Con-</u>			
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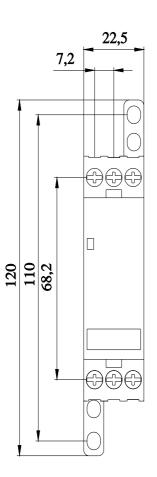
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4511-1AQ20 Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

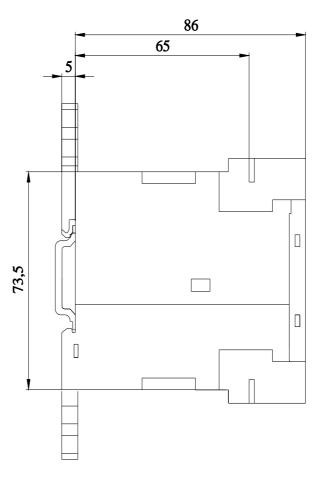
https://support.industry.siemens.com/cs/ww/en/ps/3UG4511-1AQ20

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG4511-1AQ20&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3UG4511-1AQ20/manual





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