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

			ilar

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				
 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 	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			
 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	Yes			
control circuit				
type of electrical connection	spring-loaded terminals			
type of connectable conductor cross-sections				
• solid	2x (0.25 1.5 mm²)			
 finely stranded with core end processing 	2 x (0.25 1.5 mm²)			
 finely stranded without core end processing 	2x (0.25 1.5 mm²)			
 for AWG cables solid 	2x (24 16)			
 for AWG cables stranded 	2x (24 16)			
connectable conductor cross-section				
• solid	0.25 1.5 mm²			
 finely stranded with core end processing 	0.25 1.5 mm²			
 finely stranded without core end processing 	0.25 1.5 mm²			
AWG number as coded connectable conductor cross section				

• solid			24	16			
 stranded 			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							
 with side-by-side 							
— forwards			0 mm				
— backwards	6		0 mm				
— upwards			0 mm				
- downward	S		0 mm				
— at the side	:		0 mm				
 for grounded pa 	arts						
— forwards			0 mm				
- backwards	6		0 mm				
— upwards			0 mm				
— at the side	;		0 mm				
— downward	S		0 mm				
 for live parts 							
— 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						
 during operatior 	า		-25	+60 °C			
 during storage 			-40	+85 °C			
 during transport 	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

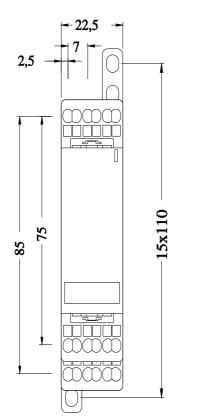
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4511-2BQ20

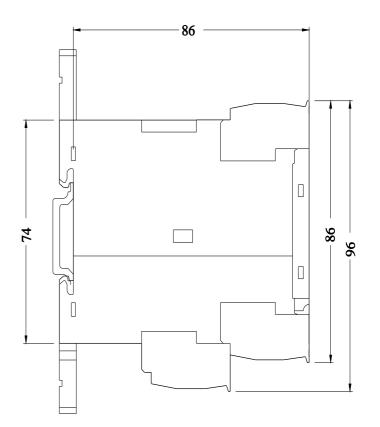
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3UG4511-2BQ20

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

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





last modified:

3/11/2024 🖸