SIEMENS

Data sheet

3UG4511-2BN20



Analog monitoring relay Phase sequence monitoring 3 x 160...260 V 50...60 Hz AC 2 change-over contacts spring-type connection system

Figure	similar	

product brand name SIRUS product designation Network monitoring relay with analog setting design of the product 1 function product function 3UG4 General technical data Product function product function Phase monitoring relay display version LED Yes insulation voltage for overvoltage category III according to 690 V degree of pollution 3 a type of voltage AC • of the control supply voltage AC • of the control supply voltage AC surge voltage resistance rated value 6 kV protection class IP IP20 shock resistance acc. to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms vibration resistance acc. to IEC 60068-2-6 1 6 Hz: 15 mm, 6 500 Hz: 2g mechanical service Ilife (switching cycles) typical 10 000 000 electrical endurance (switching cycles) typical 10 0000 thermal current of the switching element with 5 A contact maximum 5 A reference code acc. to IEC 81346-2 K Substance Prohibitance (Date)				
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product type designation 3UG4 General technical data	product designation	Network monitoring relay with analog setting		
General technical data Product function Phase monitoring relay display version LED Yes insulation voltage for overvoltage category III according to IEC 60664 690 V é with degree of pollution 3 rated value 690 V degree of pollution 3 type of voltage 600 V e of the control supply voltage AC surge voltage resistance rated value 6 kV protection class IP IP20 shock resistance acc. to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms vibration resistance act. 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) typical 100 000 typical 100 000 thermal current of the switching element with contacts maximum 5 A reference code acc. to IEC 81346-2 K Substance Prohibitance (Date) 01.05.2012 00:00:00 Product function No overvoltage detection No overvoltage detection No overvoltage detection No overvoltage detection No overv	design of the product	1 function		
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contacts maximum reference code acc. to IEC 81346-2 K Substance Prohibitance (Date) 01.05.2012 00:00:00 Product Function 01.05.2012 00:00:00 undervoltage detection No • undervoltage detection No • overvoltage detection No • phase sequence recognition Yes • phase failure detection No • overvoltage detection 3 phase No • overvoltage detection 3 phases No • undervoltage detection 3 phase No • adjustable open/closed-circuit current principle No • auto-RESET Yes		100 000		
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Product Function No • undervoltage detection No • overvoltage detection No • phase sequence recognition Yes • phase failure detection No • phase failure detection No • overvoltage detection No • phase failure detection No • overvoltage detection 3 phase No • overvoltage detection 3 phases No • undervoltage detection 3 phases No • undervoltage detection 3 phases No • undervoltage detection 3 phase No • adjustable open/closed-circuit current principle No • auto-RESET Yes Control circuit/ Control Yes	reference code acc. to IEC 81346-2	К		
product function No • 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	Substance Prohibitance (Date)	01.05.2012 00:00:00		
• undervoltage detectionNo• overvoltage detectionNo• phase sequence recognitionYes• phase failure detectionNo• phase failure detectionNo• asymmetry detectionNo• overvoltage detection 3 phaseNo• undervoltage detection 3 phasesNo• voltage window recognition 3 phaseNo• voltage window recognition 3 phaseNo• auto-RESETYesControl circuit/ Control	Product Function			
• 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	product function			
• 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	 undervoltage detection 	No		
• 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	 overvoltage 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	 phase sequence recognition 	Yes		
• 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	 phase failure detection 	No		
• undervoltage detection 3 phases No • voltage window recognition 3 phase No • adjustable open/closed-circuit current principle No • auto-RESET Yes	 asymmetry detection 	No		
voltage window recognition 3 phase No adjustable open/closed-circuit current principle No auto-RESET Yes Control circuit/ Control	 overvoltage detection 3 phase 	No		
adjustable open/closed-circuit current principle No auto-RESET Yes Control circuit/ Control	 undervoltage detection 3 phases 	No		
auto-RESET Yes Control circuit/ Control	 voltage window recognition 3 phase 	No		
Control circuit/ Control	 adjustable open/closed-circuit current principle 	No		
	auto-RESET	Yes		
control supply voltage at AC	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	
• initial value	1
	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
Auxiliary circuit	
	0
number of NC contacts delayed switching	0
number of NO contacts delayed switching	2
number of CO contacts delayed switching	2 5 000 1/h
operating frequency with 3RT2 contactor maximum	5 000 1/11
Main circuit	
number of poles for main current circuit	3
Outputs	
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 relay	4 A
Electromagnetic compatibility	
conducted interference	
 due to burst acc. to IEC 61000-4-4 	2 kV
 due to conductor-earth surge acc. to IEC 61000-4-5 	2 kV
 due to conductor-conductor surge acc. to IEC 	1 kV
61000-4-5	
field-based interference acc. to IEC 61000-4-3	10 V/m
electrostatic discharge acc. to IEC 61000-4-2	6 kV contact discharge / 8 kV air discharge
Galvanic isolation	
Galvanic isolation	
galvanic isolation	
	Yes
galvanic isolation	Yes Yes
galvanic isolation • between input and output	
galvanic isolationbetween input and outputbetween the outputs	Yes
 galvanic isolation between input and output between the outputs between the voltage supply and other circuits 	Yes
 galvanic isolation between input and output between the outputs between the voltage supply and other circuits Connections/ Terminals 	Yes Yes
 galvanic isolation between input and output between the outputs between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary 	Yes Yes
galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit	Yes Yes Yes
galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection	Yes Yes Yes
galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections	Yes Yes Yes spring-loaded terminals
galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections • solid	Yes Yes Yes spring-loaded terminals 2x (0.25 1.5 mm ²)
galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections • solid • finely stranded with core end processing	Yes Yes Yes spring-loaded terminals 2x (0.25 1.5 mm ²) 2 x (0.25 1.5 mm ²)
galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing	Yes Yes Yes spring-loaded terminals 2x (0.25 1.5 mm ²) 2 x (0.25 1.5 mm ²) 2x (0.25 1.5 mm ²)
galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid	Yes Yes Yes 2x (0.25 1.5 mm ²) 2 x (24 16)
galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections • solid • finely stranded with core end processing • at AWG cables solid • at AWG cables stranded	Yes Yes Yes 2x (0.25 1.5 mm ²) 2 x (24 16)
galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid • at AWG cables stranded connectable conductor cross-section	Yes Yes Yes 2x (0.25 1.5 mm ²) 2 x (0.25 1.5 mm ²) 2x (0.25 1.5 mm ²) 2x (0.25 1.5 mm ²) 2x (24 16) 2x (24 16)
galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid • at AWG cables stranded connectable conductor cross-section • solid	Yes Yes Yes Spring-loaded terminals 2x (0.25 1.5 mm ²) 2 x (0.25 1.5 mm ²) 2x (0.25 1.5 mm ²) 2x (24 16) 2x (24 16) 0.25 1.5 mm ²
galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections • solid • finely stranded with core end processing • at AWG cables solid • at AWG cables stranded connectable conductor cross-section • solid • at AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing	Yes Yes Yes Spring-loaded terminals 2x (0.25 1.5 mm ²) 2x (0.25 1.5 mm ²) 2x (0.25 1.5 mm ²) 2x (24 16) 2x (24 16) 0.25 1.5 mm ²
galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections • solid • finely stranded with core end processing • at AWG cables solid • at AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing • at AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing • finely stranded without core end processing	Yes Yes Yes Spring-loaded terminals 2x (0.25 1.5 mm ²) 2x (0.25 1.5 mm ²) 2x (0.25 1.5 mm ²) 2x (24 16) 2x (24 16) 0.25 1.5 mm ²
galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid • at AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing • at AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing • finely stranded without core end processing	Yes Yes Spring-loaded terminals 2x (0.25 1.5 mm ²) 2x (0.25 1.5 mm ²) 2x (0.25 1.5 mm ²) 2x (24 16) 2x (24 16) 0.25 1.5 mm ² 0.25 1.5 mm ² 2.25 1.5 mm ²
galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid • at AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing • at AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • solid • stranded	Yes Yes Yes spring-loaded terminals 2x (0.25 1.5 mm ²) 2x (0.25 1.5 mm ²) 2x (0.25 1.5 mm ²) 2x (24 16) 2x (24 16) 0.25 1.5 mm ² 0.25 1.5 mm ²
galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid • at AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing • at AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing • finely stranded without core end processing	Yes Yes Yes spring-loaded terminals 2x (0.25 1.5 mm ²) 2x (0.25 1.5 mm ²) 2x (0.25 1.5 mm ²) 2x (24 16) 2x (24 16) 0.25 1.5 mm ² 0.25 1.5 mm ² 2.25 1.5 mm ²

fastening method			snap-o	on mounting				
height			94 mn	า				
width		22.5 n	nm					
depth		91 mn	า					
required spacing								
 with side-by-sid 	le mounting							
— forwards		0 mm						
 backwards 	6		0 mm					
— upwards			0 mm					
- downward	S		0 mm					
— at the side	!		0 mm					
 for grounded path 	arts							
— forwards			0 mm					
- backwards	3		0 mm					
— upwards			0 mm					
— at the side	1		0 mm					
— downward	s		0 mm					
 for live parts 								
— forwards			0 mm					
— backwards		0 mm						
— upwards		0 mm						
- downward	s		0 mm					
— at the side	1		0 mm					
mbient conditions								
	height above sea level m	aximum	2 000	m				
ambient temperature								
during operation		-25 +60 °C						
during storage		-40	-40 +85 °C					
during transport			-40	-40 +85 °C				
ertificates/ approval	S							
General Product Ap	proval			EMC	Declaration of Conformity	Test Certificates		
	(h)	EHC			CE EG-Konf.	<u>Special Test Certifi</u> <u>ate</u>		
Test Certificates	Marine / Shipping			other	Railway			
<u>Type Test Certific-</u> ates/Test Report	Lloyd's Register uis	DIVI-GL Divilions		<u>Confirmation</u>	Vibration and Shock			
urther information	wnloadcenter (Catalogs	, Brochures,.)					

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3UG4511-2BN20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4511-2BN20

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

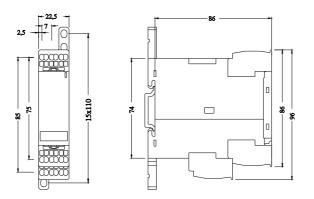
https://support.industry.siemens.com/cs/ww/en/ps/3UG4511-2BN20

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG4511-2BN20&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3UG4511-2BN20/manual



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1/12/2021 🖸