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

product brand name	SIRIUS		
product designation	Network monitoring relay with analog setting		
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 (switching cycles) typical	10 000 000		
electrical endurance (switching 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		
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	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
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	260 160 V
Auxiliary circuit	
number of NC contacts delayed switching	0
number of NO contacts delayed switching	0
number of CO contacts 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
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 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	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)
 at AWG cables solid 	2x (24 16)
at AWG cables stranded	2x (24 16)
connectable conductor cross-section	
• solid	0.25 1.5 mm ²
finely stranded with core end processing	0.25 1.5 mm ²
finely stranded without core end processing	0.25 1.5 mm²
AWG number as coded connectable conductor cross section	
• solid	24 16
- otropoded	
• stranded Installation/ mounting/ dimensions	24 16

mounting position fastening method	any snap-on mounting		
height	94 mm		
width	22.5 mm		
depth	91 mm		
required spacing			
with side-by-side mounting			
— forwards	0 mm		
— backwards	0 mm		
— upwards	0 mm		
— downwards	0 mm		
— at the side	0 mm		
for grounded parts			
— forwards	0 mm		
— backwards	0 mm		
— upwards	0 mm		
— at the side	0 mm		
— downwards	0 mm		
• for live parts			
— forwards	0 mm		
— backwards	0 mm		
— upwards	0 mm		
— downwards	0 mm		
— at the side	0 mm		
Ambient conditions			
installation altitude at height above sea level maximum	2 000 m		
ambient temperature			
 during operation 	-25 +60 °C		
 during storage 	-40 +85 °C		
 during transport 	-40 +85 °C		
Certificates/ approvals			
General Product Approval		EMC	Declaration of Conformity

Confirmation











Test Certificates Marine / Shipping other Railway

Special Test Certificate

Type Test Certificates/Test Report





Confirmation Vibratio

Vibration and Shock

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

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

 $\label{lem:service} \textbf{Service\&Support (Manuals, Certificates, Characteristics, FAQs,...)} \\ \underline{\text{https://support.industry.siemens.com/cs/ww/en/ps/3UG4511-2BN20}} \\$

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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