SIEMENS

Data sheet

3UG4511-2AP20



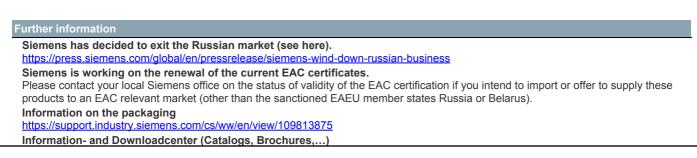
Analog monitoring relay Phase sequence monitoring 3 x 320...500 V 50...60 Hz AC 1 change-over contact spring-type connection system

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 (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			
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	320 500 V			
• at 60 Hz rated value	320 500 V			
operating range factor control supply voltage rated				

value at AC at 50 Hz				
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	320 500 V			
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			
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	4 A			
output relay				
Electromagnetic compatibility				
conducted interference	2147			
• 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 	1 kV			
61000-4-5				
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	Yes			
and control circuit type of electrical connection	spring-loaded terminals			
type of connectable conductor cross-sections	spring-loaded terminals			
solid	2x (0.25 1.5 mm²)			
 finely stranded with core end processing 	2 x (0.25 1.5 mm ²)			
 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 mm²			
 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	2416			
stranded	24 16			
Installation/ mounting/ dimensions				
mounting position	any			
fastening method	snap-on mounting			

height			84 m	Im		
width			22.5	mm		
depth			91 m	Im		
required spacing						
 with side-by-si 	de mounting					
— forwards			0 mn	n		
- backward	s		0 mn	n		
— upwards			0 mn			
— downwar	ds		0 mn	n		
— at the side			0 mn			
 for grounded p 	arts					
— forwards			0 mn	n		
- backward	ls		0 mm			
— upwards			0 mn			
— at the side	۵		0 mn			
— downward			0 mn			
 for live parts 			U IIII			
• for live parts — forwards			0 mn	0		
— backward	le		0 mn			
— upwards	15		0 mn			
— downward	do		0 mn			
— at the side			0 mn			
	C		UIIII	1		
Ambient conditions			0.000			
	t height above sea level	maximum	2 000	0 m		
ambient temperatu						
 during operation 				+60 °C		
 during storage 				+85 °C		
 during transpo 			-40	+85 °C		
Certificates/ approva	ls					
General Product A	pproval				EMC	Declaration of Conformity
					_	
Confirmation	m	Ē		rnr	A	~ ~
	(\mathbf{u})	(VL)		FHI	<u>/@</u> \	
		UL UL		LIIL	RCM	EG-Konf.
			_			
Declaration of Conformity	Test Certificates			Marine / Shipping		other
Comornity						
1.112	Special Test Cartifia	Turna Taat Car	tific			Confirmation
UK CA	Special Test Certific- ate	Type Test Cer ates/Test Rep	<u>unc-</u> oort	Lloyds	And and a second s	Commation
				Register	DNV-GL	
CH				LRS	DAVOLUTING	
Pailway						
Railway						

Vibration and Shock



4/18/2023

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3UG4511-2AP20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4511-2AP20

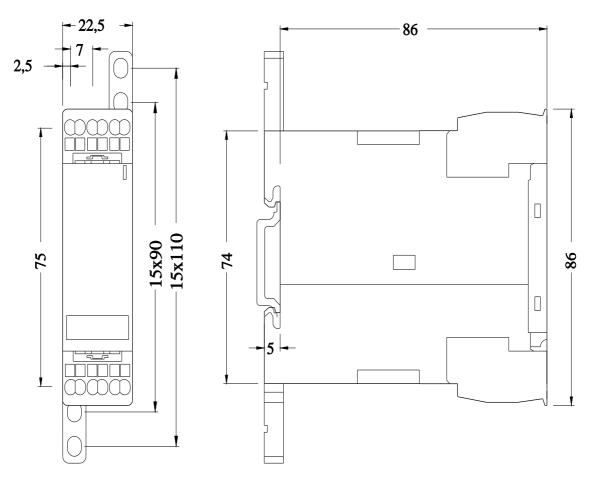
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3UG4511-2AP20

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG4511-2AP20&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3UG4511-2AP20/manual



last modified:

3/22/2023 🖸