SIEMENS

Data sheet

3UG4511-1BP20



Analog monitoring relay Phase sequence monitoring 3 x 320...500 V 50...60 Hz AC 2 change-over contacts screw terminal Successor product for 3UG3511-1BQ50

product brand name SIRUS product designation Line monitoring relay design of the product 1 function product function 9U64 Ceneral technical data					
design of the product 1 function product type designation 3U04 Ceneral technical data ************************************	product brand name	SIRIUS			
product type designation 3UG4 Ceneral technical data Product function product function Phase monitoring relay display version LED Yes insulation voltage for overvoltage category III according to IEC 60664 690 V 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 according to IEC 60068-2-27 sinusoidal haf-wave 15g / 11 ms vibration resistance according to IEC 60068-2-27 sinusoidal haf-wave 15g / 11 ms vibration resistance according to IEC 60068-2-27 sinusoidal haf-wave 15g / 11 ms vibration resistance according to IEC 60068-2-27 sinusoidal haf-wave 15g / 11 ms vibration resistance according to IEC 60068-2-27 sinusoidal haf-wave 15g / 11 ms vibration resistance according to IEC 60068-2-27 100 000 000 electrical endurance (operating cycles) at AC-15 at 230 V 100 000 typical 10 000 000 electrical endurance (operating cycles) at AC-15 at 230 V 100 000 typical 5 A <	product designation	Line monitoring relay			
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• 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	 asymmetry detection 	No			
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	 undervoltage detection 3 phases 	No			
• auto-RESET Yes Control circuit/ Control control supply voltage at AC • at 50 Hz rated value 320 500 V	 voltage window recognition 3 phase 	No			
Control circuit/ Control control supply voltage at AC • at 50 Hz rated value 320 500 V	 adjustable open/closed-circuit current principle 	No			
control supply voltage at AC 320 500 V	auto-RESET	Yes			
• at 50 Hz rated value 320 500 V	Control circuit/ Control				
	control supply voltage at AC				
	• at 50 Hz rated value	320 500 V			
• at ou Hz rated value 320 500 V	• at 60 Hz rated value	320 500 V			

anagating gange factor control cumply voltage gated value of	
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	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	2
delayed switching	2
operating frequency with 3RT2 contactor maximum	5 000 1/h
Main circuit	<u>.</u>
number of poles for main current circuit	3
ampacity of the output relay at AC-15	2.4
 at 250 V at 50/60 Hz at 400 V at 50/60 Hz 	3 A 3 A
	3 A
 ampacity of the output relay at DC-13 at 24 V 	1A
• 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	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-type terminals
type of connectable conductor cross-sections	
• solid	1x (0.5 4.0 mm ²), 2x (0.5 2.5 mm ²)
• finely stranded with core end processing	1x (0.5 2.5 mm ²), 2x (0.5 1.5 mm ²)
• for AWG cables solid	2x (20 14)
• for AWG cables stranded	2x (20 14)
connectable conductor cross-section	0.5 4 mm ²
solid finally atranded with care and pressessing	0.5 4 mm ²
finely stranded with core end processing	0.5 2.5 mm²
AWG number as coded connectable conductor cross section	20 44
• solid	20 14
• stranded	2014
tightening torque with screw-type terminals	0.8 1.2 N·m
Installation/ mounting/ dimensions	
mounting position	any
fastening method	snap-on mounting

height			92 mr	n		
width			22.5 r	nm		
depth			91 mr	n		
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 part 	ts					
— forwards			0 mm			
- backwards			0 mm			
— upwards			0 mm			
— at the side			0 mm			
— downwards			0 mm			
for live parts			0			
— forwards			0 mm			
— backwards			0 mm			
— upwards — downwards			0 mm 0 mm			
— at the side			0 mm			
Ambient conditions		_	0 mm			
	eight above sea level maxi	mum	2 000	m		
ambient temperature		mann	2 000	111		
during operation			-25 +60 °C			
during storage			-25 +00 °C -40 +85 °C			
during storage during transport				+85 °C		
Certificates/ approvals						
					FMC	Declaration of Con-
General Product App	rovai				EMC	formity
Confirmation	(\mathbf{x})	(ΨL)		FAC	<i>\</i>	CE
	ccc	UL		LIIL	RCM	EG-Konf.
Declaration of Con- formity	Test Certificates			Marine / Shipping		other
UK CA	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certi</u> ates/Test Rep	<u>ific-</u> ort	Lloyd's Register uis	DIVISION OF	<u>Confirmation</u>
Railway						

Vibration and Shock



Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3UG4511-1BP20 Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4511-1BP20

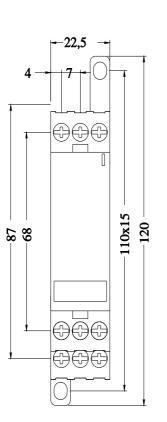
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3UG4511-1BP20

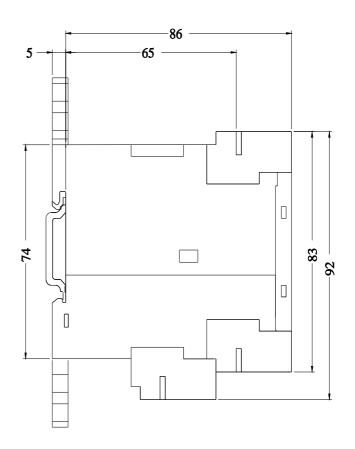
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG4511-1BP20&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3UG4511-1BP20/manual





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