SIEMENS

Data sheet

3UG4511-1BP20



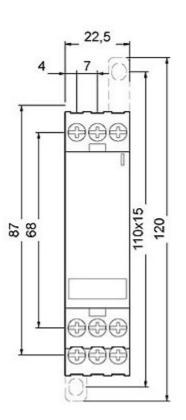
Analog monitoring relay Phase sequence monitoring 3 x 320...500 V 50...60 Hz AC 2 change-over contacts screw terminal Successor product for 3UG3511-1BQ50

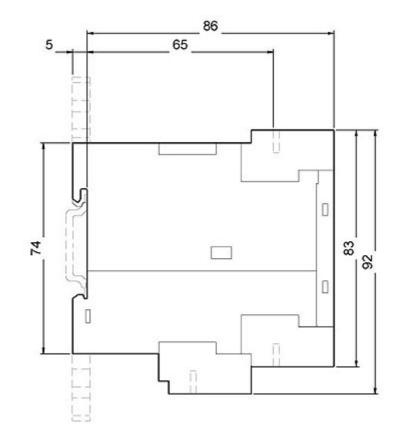
product brand name	SIRIUS		
product designation	Network monitoring relay with analog setting		
design of the product	1 function		
product type designation	3UG4		
General technical data			
product function	Phase monitoring relay		
display version LED	Yes		
insulation voltage for overvoltage category III 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 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 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 acc. to IEC 81346-2	К		
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			

control supply voltage at AC

a at EO Liz rated value	
• 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	
• 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
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
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	1A
• 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	
• 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 61000-4-5	1 KV
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
	6 kV contact discharge / 8 kV air discharge
electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation galvanic isolation	6 kV contact discharge / 8 kV air discharge
electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation galvanic isolation • between input and output	6 kV contact discharge / 8 kV air discharge Yes
electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation galvanic isolation • between input and output • between the outputs	
electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation alvanic isolation between input and output between the outputs between the voltage supply and other circuits	Yes
electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation galvanic isolation • between input and output • between the outputs	Yes Yes
electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation alvanic isolation between input and output between the outputs between the voltage supply and other circuits	Yes Yes
electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product function removable terminal for auxiliary and	Yes Yes Yes
electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product function removable terminal for auxiliary and control circuit	Yes Yes Yes
electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product function removable terminal for auxiliary and control circuit type of electrical connection	Yes Yes Yes
electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation alvanic isolation between input and output between the outputs between the voltage supply and other circuits Connections/ Terminals product function removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections	Yes Yes Yes Screw-type terminals
electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product function removable terminal for auxiliary and control circuit type of electrical connection type of connectable conductor cross-sections • solid	Yes Yes Yes Screw-type terminals 1x (0.5 4 mm2), 2x (0.5 2.5 mm2)
electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product function 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 Yes screw-type terminals 1x (0.5 4 mm2), 2x (0.5 2.5 mm2) 1x (0.5 2.5 mm2), 2x (0.5 1.5 mm2)
electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product function 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	Yes Yes Yes Screw-type terminals 1x (0.5 4 mm2), 2x (0.5 2.5 mm2) 1x (0.5 2.5 mm2), 2x (0.5 1.5 mm2) 2x (20 14)
electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation alvanic isolation between input and output between the outputs between the voltage supply and other circuits Connections/ Terminals product function 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 Screw-type terminals 1x (0.5 4 mm2), 2x (0.5 2.5 mm2) 1x (0.5 2.5 mm2), 2x (0.5 1.5 mm2) 2x (20 14) 2x (20 14)
electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation alvanic isolation between input and output between the outputs between the voltage supply and other circuits Connections/ Terminals product function 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 connectable conductor cross-section solid connectable conductor cross-section solid	Yes Yes Yes Yes Screw-type terminals 1x (0.5 4 mm2), 2x (0.5 2.5 mm2) 1x (0.5 2.5 mm2), 2x (0.5 1.5 mm2) 2x (20 14) 2x (20 14) 0.5 4 mm ²
electrostatic discharge acc. to IEC 61000-4-2 Galvanic isolation galvanic isolation • between input and output • between the outputs • between the voltage supply and other circuits Connections/ Terminals product function 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 • connectable conductor cross-section finely stranded with core end processing • AWG number as coded connectable conductor	Yes Yes Yes Screw-type terminals 1x (0.5 4 mm2), 2x (0.5 2.5 mm2) 1x (0.5 2.5 mm2), 2x (0.5 1.5 mm2) 2x (20 14) 2x (20 14) 0.5 4 mm ² 0.5 2.5 mm ²

stallation/ mounting/ dimensions					
mounting position	any				
fastening method	snap-on mounting				
height	92 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				
mbient conditions					
installation altitude at height above sea level maximum	2 000 m				
 ambient temperature during operation 	-25 +60 °C				
ambient temperature during storage	-40 +85 °C				
ambient temperature during transport	-40 +85 °C				
ertificates/ approvals					
	Declaration of Co	onformity	Test Certificates		
General Product Approval EMC	Declaration of Co	onformity	Test Certificates		
	Declaration of Co	onformity <u>Miscellaneous</u>	Special Test		
	Declaration of Co	-			
	Declaration of Co	-	Special Test		
General Product Approval EMC	5 CE	-	Special Test		
General Product Approval EMC	5 CE	-	Special Test		
General Product Approval EMC	5 CE	-	Special Test		
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General Product Approval EMC Image: Constraint of the second se	CEG-Konf.	Miscellaneous	Special Test		
General Product Approval EMC Image: Colspan="2">Output: Output: Outp	CEG-Konf.	Miscellaneous	Special Test		
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General Product Approval EMC Image: Constraint of the second s	other Confirmation	Miscellaneous	Special Test		
General Product Approval EMC Image: Constraint of the second s	other Confirmation	Miscellaneous	Special Test		
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General Product Approval EMC Image: Constraint of the system o	other confirmation) ct?mlfb=3UG4511-1BP20 ult.aspx?lang=en&mlfb=3UG s, FAQs,) I-1BP20 gs, 3D models, device circul ifb=3UG4511-1BP20⟨=e	Miscellaneous Miscellaneous Railway Vibration and Shock	Special Test Certificate		





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