SIEMENS

Data sheet 3UG4511-1AP20



Analog monitoring relay Phase sequence monitoring 3 x 320...500 V 50...60 Hz AC 1 change-over contact screw terminal Successor product for 3 UG3511-1AQ50

Figure similar

product brand name
SIRIUS
product designation
Network monitoring relay with analog setting
design of the product
1 function
product type designation
3UG4

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 No • undervoltage detection • overvoltage detection No Yes • phase sequence recognition • phase failure detection Yes; available but limited, detection is problematic with high levels of regenerative power recovery · 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

	000 5001/		
 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		
Measuring circuit	•		
9	320 500 V		
measurable voltage at AC	320 300 V		
Auxiliary circuit			
number of NC contacts delayed switching	0		
number of NO contacts delayed switching	0		
number of CO contacts 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	214/		
due to burst according to IEC 61000-4-4 due to conductor conth curren according to IEC.	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 mm2), 2x (0.5 2.5 mm2)		
 finely stranded with core end processing 	1x (0.5 2.5 mm2), 2x (0.5 1.5 mm2)		
at AWG cables solid	2x (20 14)		
 at AWG cables stranded 	2x (20 14)		
connectable conductor cross-section			
• solid	0.5 4 mm²		
 finely stranded with core end processing 	0.5 2.5 mm ²		
AWG number as coded connectable conductor cross section			
• solid	20 14		
• stranded	20 14		
tightening torque with screw-type terminals	0.8 1.2 N·m		
Installation/ mounting/ dimensions			
mounting position	any		
fastening method	snap-on mounting		
height	83 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



General Product Approval

Confirmation









Conformity

Declaration of Test Certificates Marine / Shipping other Conformity



Type Test Certificates/Test Report

Special Test Certific-<u>ate</u>





Confirmation

Railway

Vibration and Shock

Further information

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

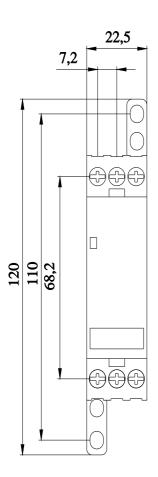
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3UG4511-1AP20

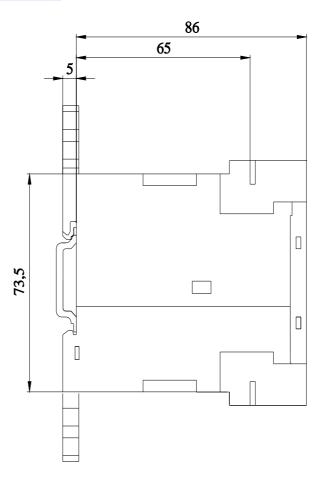
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4511-1AP20

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3UG4511-1AP20

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





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