SIEMENS

Data sheet 3UG4511-2BP20



 $\rm !!!!$ product phase-out !!! the preferred successor is 3UG5511-2BR20 phase sequence monitoring 3 x 320...500 V, 2 changeover contacts; analog monitoring relay phase sequence monitoring 3 x 320...500 V 50...60 Hz AC 2 changeover contacts spring-loaded connection system

Figure similar

product brand name	SIRIUS
product designation	Line monitoring relay
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
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	K
Substance Prohibitance (Date)	05/01/2012
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol - 79-94-7
Weight	0.13 kg
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	
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
response time maximum	450 ms
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	
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	4 A
relay Electromagnetic compatibility	
conducted interference	
due to burst according to IEC 61000-4-4	2 kV
 due to burst according to IEC 01000-4-4 due to conductor-earth surge according to IEC 61000-4-5 	2 kV
due to conductor-earth surge according to IEC 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	o ki oonaat aloona go yo ki alii aloona go
galvanic isolation	
between input and output	Yes
between the outputs	Yes
between the outputs between the voltage supply and other circuits	Yes
Electrical Safety	
protection class IP on the front according to IEC 60529	IP20
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)
• for AWG cables solid	2x (24 16)
for AWG cables stranded	2x (24 16)
connectable conductor cross-section	
• SOIIQ	0.25 1.5 mm ²
solid finely stranded with core end processing	0.25 1.5 mm² 0.25 1.5 mm²
 solid finely stranded with core end processing finely stranded without core end processing 	0.25 1.5 mm ² 0.25 1.5 mm ² 0.25 1.5 mm ²

AWG number as coded connectable conductor cross section solid 24 ... 16 stranded 24 ... 16 Installation/ mounting/ dimensions mounting position fastening method snap-on mounting 94 mm height width 22.5 mm 91 mm depth required spacing • with side-by-side mounting 0 mm - forwards - 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 installation altitude at height above sea level maximum 2 000 m ambient temperature -25 ... +60 °C during operation -40 ... +85 °C • during storage during transport -40 ... +85 °C Environmental footprint Environmental Product Declaration(EPD) Yes global warming potential [CO2 eq] total 16.1 kg global warming potential [CO2 eq] during manufacturing 3.51 kg global warming potential [CO2 eq] during operation 13.7 kg global warming potential [CO2 eq] after end of life -1.12 kg Approvals Certificates **General Product Approval EMV**













EMV Test Certificates Maritime application other

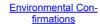
KC Type Test Certificates/Test Report Special Test Certificate





Confirmation

Railway Environment





Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3UG4511-2BP20

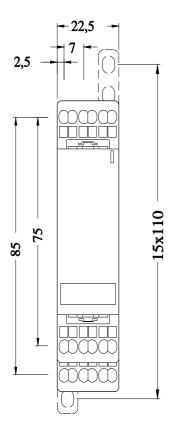
Cax online generator

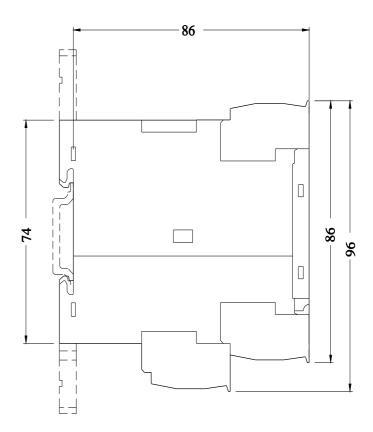
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4511-2BP20

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3UG4511-2BP20

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG4511-2BP20&lang=en





last modified:

5/1/2025