



Figure similar

!!! product phase-out !!! the preferred successor is 3UG5511-1AR20 phase sequence monitoring 3 x 420...690 V, 1 changeover contact; analog monitoring relay phase sequence monitoring 3 x 420...690 V 50...60 Hz AC 1 changeover contact screw terminal

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
surge voltage resistance rated value	6 kV
shock resistance according to IEC 60068-2-27	sinusoidal half-wave 15 g / 11 ms
vibration resistance according to IEC 60068-2-6	1 ... 6 Hz: 15 mm, 6 ... 500 Hz: 2 g
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 (day/month/year)	05/01/2012
SVHC substance name	Lead CAS-No. 7439-92-1 Lead monoxide (lead oxide) CAS-No. 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one CAS-No. 71868-10-5 Melamine CAS-No. 108-78-1
Net Weight	116.58 g
Product Function	
product function	
• undervoltage detection	No
• overvoltage detection	No
• phase sequence recognition	Yes
• phase failure detection	No
• asymmetry detection	No
• overcurrent detection 1 phase	No
• overvoltage detection 3 phase	No
• undercurrent detection 1 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	
type of voltage of the control supply voltage	AC
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
Interfaces	
design of the interface bluetooth	No
Measuring circuit	
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	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 A
• at 250 V	0 A
operational current at 17 V minimum	5 mA
continuous current of the DIAZED fuse link of the output relay	4 A
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
Safety related data	
product function suitable for safety function	No
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	screw terminal
type of connectable conductor cross-sections	
• solid	1x (0.5 ... 4.0mm 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)

<ul style="list-style-type: none">• for AWG cables stranded	2x (20 ... 14)	
connectable conductor cross-section		
<ul style="list-style-type: none">• solid	0.5 ... 4 mm²	
<ul style="list-style-type: none">• finely stranded with core end processing	0.5 ... 2.5 mm²	
AWG number as coded connectable conductor cross section		
<ul style="list-style-type: none">• solid	20 ... 14	
<ul style="list-style-type: none">• 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		
<ul style="list-style-type: none">• with side-by-side mounting<ul style="list-style-type: none">— forwards— backwards— upwards— downwards— at the side	<div>0 mm</div> <div>0 mm</div> <div>0 mm</div> <div>0 mm</div> <div>0 mm</div>	
<ul style="list-style-type: none">• for grounded parts<ul style="list-style-type: none">— forwards— backwards— upwards— at the side— downwards	<div>0 mm</div> <div>0 mm</div> <div>0 mm</div> <div>0 mm</div> <div>0 mm</div>	
<ul style="list-style-type: none">• for live parts<ul style="list-style-type: none">— forwards— backwards— upwards— downwards— at the side	<div>0 mm</div> <div>0 mm</div> <div>0 mm</div> <div>0 mm</div> <div>0 mm</div>	
Ambient conditions		
installation altitude at height above sea level maximum	2 000 m	
ambient temperature		
<ul style="list-style-type: none">• during operation	-25 ... +60 °C	
<ul style="list-style-type: none">• during storage	-40 ... +85 °C	
<ul style="list-style-type: none">• during transport	-40 ... +85 °C	
Approvals Certificates		
Environmental Product Declaration		
<ul style="list-style-type: none">• global warming potential [CO2 eq] / during manufacturing	3.51 kg	
<ul style="list-style-type: none">• global warming potential [CO2 eq] / during sales	0.0276 kg	
<ul style="list-style-type: none">• global warming potential [CO2 eq] / during operation	13.7 kg	
<ul style="list-style-type: none">• global warming potential [CO2 eq] / after end of life	-1.12 kg	
<ul style="list-style-type: none">• global warming potential [CO2 eq] / total	16.1 kg	
Environment	General Product Approval	
<div><div>Environmental Con- firmations</div><div></div><div></div><div></div><div></div><div></div></div>		
General Product Approval	EMV	Test Certificates



[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)

Maritime application

other

Railway



[Confirmation](#)



[Special Test Certificate](#)

Further information

Information on the packaging

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

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

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=3UG4511-1AQ20>

Cax online generator

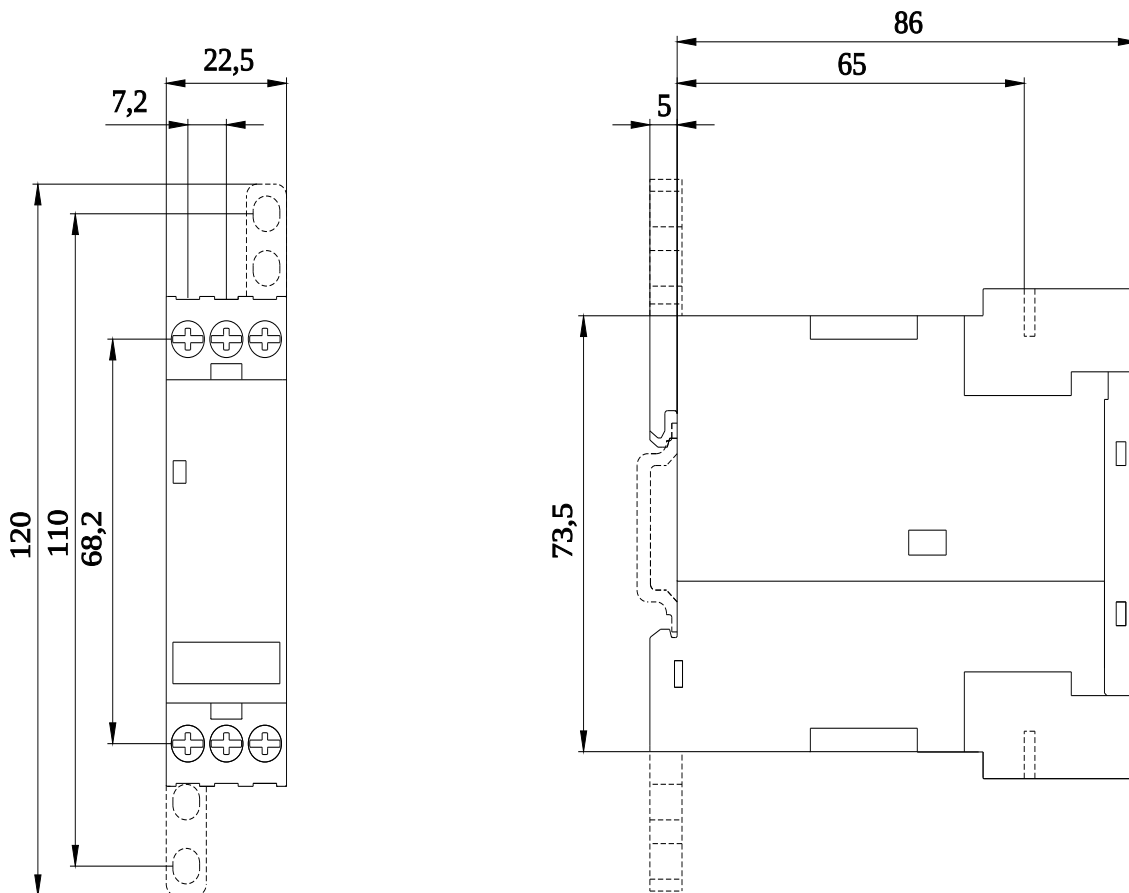
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4511-1AQ20>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3UG4511-1AQ20>

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

https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG4511-1AQ20&lang=en



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