## SIEMENS

## Data sheet

## 3UG4631-2AW30

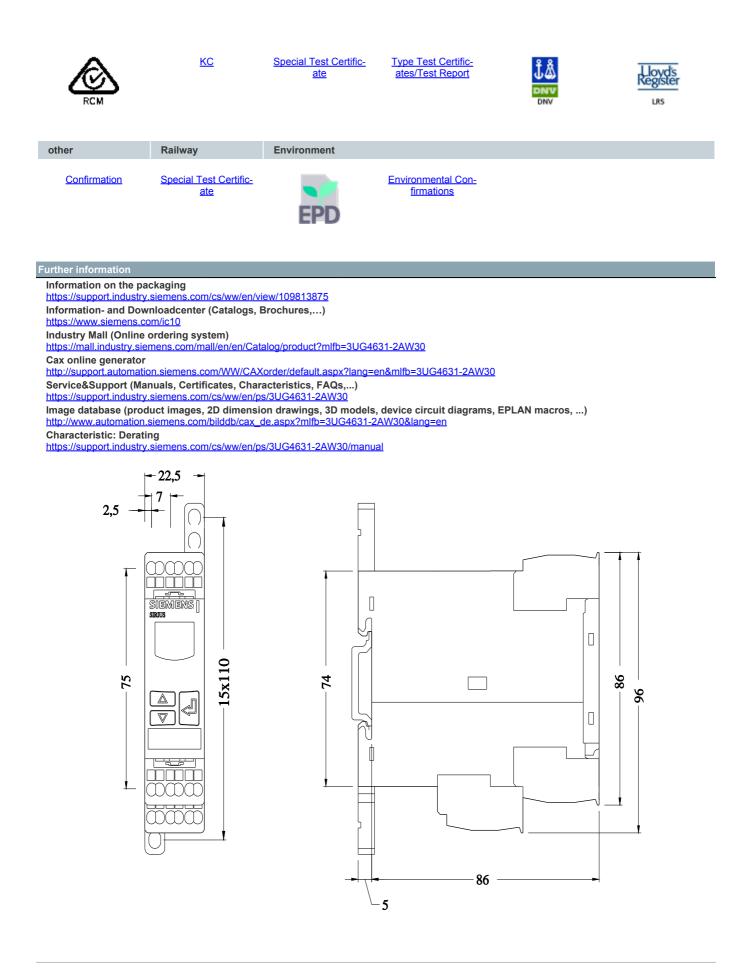


Digital monitoring relay Voltage monitoring, 22.5 mm from 0.1-60 V AC/DC 0vershoot and undershoot 24 to 240 V AC/DC 50 to 60 Hz DC and AC Noise pulses delay 0.1 to 20 s Hysteresis 0.1 to 30 V 1 change-over contact with or without fault buffer spring-type connection system

product brand name	SIRIUS
product designation	Voltage monitoring relay with digital setting
product type designation	3UG4
General technical data	
product function	Voltage monitoring relay
design of the display	LCD
insulation voltage for overvoltage category III according to IEC 60664	
<ul> <li>with degree of pollution 3 rated value</li> </ul>	690 V
type of voltage	
for monitoring	AC/DC
<ul> <li>of the control supply voltage</li> </ul>	AC/DC
surge voltage resistance rated value	4 kV
maximum permissible voltage for protective separation	
<ul> <li>between auxiliary and auxiliary circuit</li> </ul>	300 V
<ul> <li>between control and auxiliary circuit</li> </ul>	300 V
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 (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	К
relative repeat accuracy	1 %
Substance Prohibitance (Date)	05/01/2012
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8
Product Function	
product function	
<ul> <li>undervoltage detection</li> </ul>	Yes
<ul> <li>overvoltage detection</li> </ul>	Yes
<ul> <li>overvoltage detection 1 phase</li> </ul>	Yes
<ul> <li>overvoltage detection 3 phase</li> </ul>	No
<ul> <li>overvoltage detection DC</li> </ul>	Yes
<ul> <li>undervoltage detection 1 phase</li> </ul>	Yes
<ul> <li>undervoltage detection 3 phases</li> </ul>	No
<ul> <li>undervoltage detection DC</li> </ul>	Yes
<ul> <li>voltage window recognition 1 phase</li> </ul>	Yes
<ul> <li>voltage window recognition 3 phase</li> </ul>	No

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voltage window recognition DC	Yes
adjustable open/closed-circuit current principle	Yes
external reset	Yes
• auto-RESET	Yes
Control circuit/ Control	
control supply voltage at AC	
• at 50 Hz rated value	24 240 V
at 60 Hz rated value	24 240 V
<ul> <li>control supply voltage at DC rated value</li> </ul>	24 240 V
operating range factor control supply voltage rated value at DC	
initial value	0.85
• full-scale value	1.1
operating range factor control supply voltage rated value at AC at 50 Hz	
• initial value	0.85
• full-scale value	1.1
operating range factor control supply voltage rated value at AC at 60 Hz	
initial value	0.85
Initial value     full-scale value	1.1
• ruii-scale value Measuring circuit	1.1
measurable line frequency	40 500 Hz
measurable ine frequency measurable voltage at AC	40 500 HZ 0.1 60 V
measurable voltage at DC	0.1 60 V
adjustable response delay time	0.100 V
with lower or upper limit violation	0.1 20 s
accuracy of digital display	+/-1 digit
relative temperature-related measurement deviation	0.1 %
Precision	
relative metering precision	5 %
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	1
ampacity of the output relay at AC-15 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 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	
design of the electrical isolation	Protective separation
galvanic isolation	
<ul> <li>between input and output</li> </ul>	Yes
between the outputs	No.
between the outputs	Yes
between the outputs     between the voltage supply and other circuits	Yes

protection class IP on the front according to IEC 605	29 IP20
Connections/ Terminals	
product component removable terminal for auxiliary control circuit	and Yes
type of electrical connection	spring-loaded terminals
type of connectable conductor cross-sections	
• solid	2x (0.25 1.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2 x (0.25 1.5 mm <sup>2</sup> )
<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.25 1.5 mm <sup>2</sup> )
<ul> <li>for AWG cables solid</li> </ul>	2x (24 16)
for AWG cables stranded	2x (24 16)
connectable conductor cross-section	
• solid	0.25 1.5 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	0.25 1.5 mm <sup>2</sup>
<ul> <li>finely stranded without core end processing</li> </ul>	0.25 1.5 mm <sup>2</sup>
AWG number as coded connectable conductor cross	
section	
• solid	24 16
stranded	24 16
Installation/ mounting/ dimensions	
mounting position	any
fastening method	snap-on mounting
height	94 mm
width	22.5 mm
depth	91 mm
required spacing	
<ul> <li>with side-by-side mounting</li> </ul>	
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	0 mm
<ul> <li>for grounded parts</li> </ul>	
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— at the side	0 mm
— downwards	0 mm
<ul> <li>for live parts</li> </ul>	
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— at the side	0 mm
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-25 +60 °C
during storage	-40 +85 °C
during transport	-40 +85 °C
Approvals Certificates	
General Product Approval	
	Confirmation Que Confirmation Effective
EMV Test	Certificates Marine / Shipping



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