SIEMENS

3UG4631-2AW30 **Data sheet**



Digital monitoring relay Voltage monitoring, 22.5 mm from 0.1-60 V AC/DC Overshoot 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 product designation product type designation SIRIUS

Voltage monitoring relay with digital setting

General technical data

product function design of the display

insulation voltage for overvoltage category III according to IEC 60664

• with degree of pollution 3 rated value

type of voltage

for monitoring

• of the control supply voltage surge voltage resistance rated value

maximum permissible voltage for safe isolation

· between auxiliary and auxiliary circuit

· between control and auxiliary circuit

protection class IP

shock resistance according to IEC 60068-2-27 vibration resistance according to IEC 60068-2-6 mechanical service life (operating cycles) typical electrical endurance (operating cycles) at AC-15 at 230 V typical

thermal current of the switching element with contacts maximum

reference code according to IEC 81346-2

relative repeat accuracy

Substance Prohibitance (Date)

690 V

AC/DC

4 kV

300 V

10 000 000

05/01/2012

Product Function

product function

undervoltage detection

overvoltage detection DC

• undervoltage detection 3 phases

• voltage window recognition 1 phase

• adjustable open/closed-circuit current principle

external reset

Voltage monitoring relay

LCD

AC/DC

300 V

IP20

sinusoidal half-wave 15g / 11 ms 1 ... 6 Hz: 15 mm, 6 ... 500 Hz: 2g

100 000

5 A

Κ 1 %

Yes

• overvoltage detection

 overvoltage detection 1 phase • overvoltage detection 3 phase

• undervoltage detection 1 phase

• undervoltage detection DC

• voltage window recognition 3 phase voltage window recognition DC

Yes Yes No Yes Yes No Yes Yes No Yes Yes 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
control supply voltage at DC	
rated value	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	0.05
• initial value	0.85
full-scale value	1.1
Measuring circuit	40 500 11
measurable line frequency	40 500 Hz
measurable voltage at AC	0.1 60 V 0.1 60 V
measurable voltage at DC adjustable response delay time	U.1 0U 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 burst according to IEC 01000-4-4 due to conductor-earth surge according to IEC	2 kV
61000-4-5	
due to conductor-conductor surge according to IEC	1 kV
61000-4-5	40.\//
field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2	10 V/m 6 kV contact discharge / 8 kV air discharge
Galvanic isolation	O NV Contact discharge / O NV all discharge
	Protective congration
design of the electrical isolation galvanic isolation	Protective separation
between input and output	Yes
between the outputs	Yes
 between the outputs between the voltage supply and other circuits 	Yes
Connections/ Terminals	
product component removable terminal for auxiliary	Yes
and control circuit	
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)
 at AWG cables solid 	2x (24 16)
 at AWG cables stranded 	2x (24 16)
connectable conductor cross-section	
• solid	0.25 1.5 mm ²
 finely stranded with core end processing 	0.25 1.5 mm²
 finely stranded without core end processing 	0.25 1.5 mm²
AWG number as coded connectable conductor cross	
section	
• solid	24 16
• stranded	24 16
In a tallation I was unting I discounding	
Installation/ mounting/ dimensions	
mounting position	any
	snap-on mounting
mounting position	snap-on mounting 94 mm
mounting position fastening method	snap-on mounting
mounting position fastening method height width depth	snap-on mounting 94 mm
mounting position fastening method height width depth required spacing	snap-on mounting 94 mm 22.5 mm
mounting position fastening method height width depth required spacing • with side-by-side mounting	snap-on mounting 94 mm 22.5 mm
mounting position fastening method height width depth required spacing	snap-on mounting 94 mm 22.5 mm
mounting position fastening method height width depth required spacing • with side-by-side mounting	snap-on mounting 94 mm 22.5 mm 91 mm
mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards	snap-on mounting 94 mm 22.5 mm 91 mm
mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards	snap-on mounting 94 mm 22.5 mm 91 mm 0 mm 0 mm
mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards	snap-on mounting 94 mm 22.5 mm 91 mm 0 mm 0 mm 0 mm
mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards	snap-on mounting 94 mm 22.5 mm 91 mm 0 mm 0 mm 0 mm 0 mm
mounting position fastening method height width depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side	snap-on mounting 94 mm 22.5 mm 91 mm 0 mm 0 mm 0 mm 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

0 mm

0 mm

0 mm

0 mm

0 mm

0 mm

Certificates/ approvals

— at the side

- downwards

- backwards

— upwards

— upwards

• for live parts - forwards

Declaration of EMC General Product Approval Conformity



Confirmation









Declaration of Conformity	Test Certificates	Marine / Shipping	other
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Special Test Certific-<u>ate</u>

Type Test Certificates/Test Report





Confirmation

Vibration and Shock

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3UG4631-2AW30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4631-2AW30

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

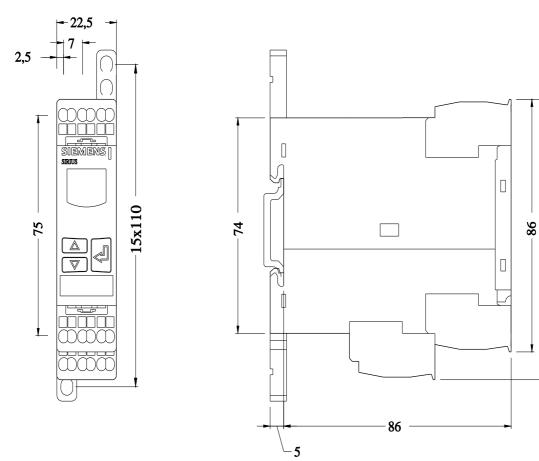
https://support.industry.siemens.com/cs/ww/en/ps/3UG4631-2AW30

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG4631-2AW30&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3UG4631-2AW30/manual



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