## **SIEMENS**

Data sheet 3UG4581-2AW31



insulation monitoring relay for ungrounded (IT) networks up to 400 V AC, 50-60 Hz measuring range 1-100 kohm supply voltage 24-240 V AC/DC 22.5 mm, 1 changeover contact spring-loaded terminal (push-in)

product brand name	SIRIUS		
product designation	Insulation monitoring relay with analog setting		
product type designation	3UG4		
General technical data			
product function	Insulation monitor		
type of voltage			
<ul> <li>for monitoring</li> </ul>	AC		
<ul> <li>of the operating voltage for actuation</li> </ul>	AC/DC		
<ul> <li>of the control supply voltage</li> </ul>	AC/DC		
surge voltage resistance rated value	6 000 V		
protection class IP	IP20		
thermal current of the switching element with contacts maximum	4 A		
reference code according to IEC 81346-2	K		
Substance Prohibitance (Date)	05/01/2012		
Product Function			
product function			
• error memory	Yes		
<ul> <li>adjustable open/closed-circuit current principle</li> </ul>	No		
manual RESET	Yes		
Control circuit/ Control			
control supply voltage at AC			
<ul> <li>at 50 Hz rated value</li> </ul>	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			
• initial value	0.85		
full-scale value	1.1		
Measuring circuit			
measurable line frequency	50 60 Hz		
measurable voltage at AC	0 400 V		
Auxiliary circuit			

number of NC contacts for auxiliary contacts	0		
number of NC contacts delayed switching	0		
number of NO contacts for auxiliary contacts	0		
number of NO contacts delayed switching	0		
number of CO contacts			
delayed switching	1		
Main circuit			
operating frequency rated value	50 60 Hz		
Connections/ Terminals			
product component removable terminal for auxiliary and control circuit	No		
type of electrical connection	spring-loaded terminals		
type of connectable conductor cross-sections			
• solid	2x (0.5 1.5 mm²)		
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²)		
<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.5 1.5 mm²)		
<ul> <li>for AWG cables solid</li> </ul>	2x (20 16)		
for AWG cables stranded	2x (18 16)		
connectable conductor cross-section			
• solid	0.5 1.5 mm²		
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 1.5 mm²		
finely stranded without core end processing	0.5 1.5 mm²		
AWG number as coded connectable conductor cross section			
• solid	20 16		
• stranded	18 16		
Installation/ mounting/ dimensions			
mounting position	any		
fastening method	snap-on fastening on 35 mm [	OIN rail	
height	78 mm		
width	22.5 mm		
depth	100 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		
• for live parts			
— forwards	0 mm		
— backwards	0 mm		
— upwards	0 mm		
— downwards	0 mm		
— at the side	0 mm		
Ambient conditions			
ambient temperature during operation	-25 +60 °C		
Approvals Certificates			
General Product Approval		EMC	Declaration of Conformity



Confirmation

















Confirmation

## 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=3UG4581-2AW31

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3UG4581-2AW31}$ 

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

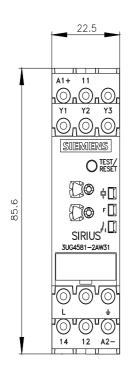
https://support.industry.siemens.com/cs/ww/en/ps/3UG4581-2AW31

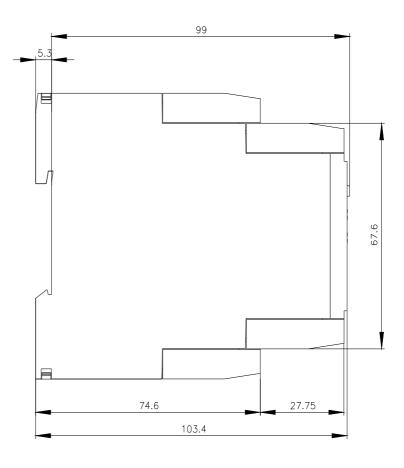
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

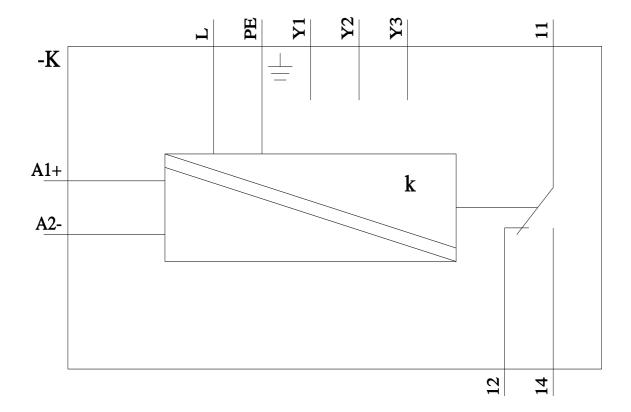
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3UG4581-2AW31&lang=en

**Characteristic: Derating** 

https://support.industry.siemens.com/cs/ww/en/ps/3UG4581-2AW31/manual







last modified: 3/31/2023 🖸