## **SIEMENS**

Data sheet 3UG4582-1AW31



insulation monitoring relay for ungrounded (IT) networks up to 250 V AC, 15-400 Hz and up to 300 V DC measuring range 1-100 kohm supply voltage 24-240 V AC/DC 22.5 mm, 1 changeover contact screw terminal

| 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/DC   |
| <ul> <li>of the operating voltage for actuation</li> </ul>   | AC/DC   |
| of the control supply voltage  | 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   |   |
| <ul><li>error memory</li></ul>   | Yes   |
| <ul> <li>adjustable open/closed-circuit current principle</li> </ul>   | No  |
| a manual DECET   | Vac   |
| manual RESET   | Yes   |
| manual RESET  Control circuit/ Control   | Yes   |
|  | res   |
| Control circuit/ Control   | 24 240 V  |
| Control circuit/ Control control supply voltage at AC  |   |
| Control circuit/ Control  control supply voltage at AC  • at 50 Hz rated value  • at 60 Hz rated value  control supply voltage at DC rated value   | 24 240 V  |
| Control circuit/ Control  control supply voltage at AC  • at 50 Hz rated value  • at 60 Hz rated value   | 24 240 V<br>24 240 V                            |
| control circuit/ Control  control supply voltage at AC  • at 50 Hz rated value  • at 60 Hz rated value  control supply voltage at DC rated value  operating range factor control supply voltage rated  | 24 240 V<br>24 240 V                            |
| control circuit/ Control  control supply voltage at AC  • at 50 Hz rated value  • at 60 Hz rated value  control supply voltage at DC rated value  operating range factor control supply voltage rated value at DC  • initial value  • full-scale value   | 24 240 V<br>24 240 V<br>24 240 V                |
| control circuit/ Control  control supply voltage at AC  • at 50 Hz rated value  • at 60 Hz rated value  control supply voltage at DC rated value  operating range factor control supply voltage rated value at DC  • initial value   | 24 240 V<br>24 240 V<br>24 240 V                |
| control circuit/ Control  control supply voltage at AC  • at 50 Hz rated value  • at 60 Hz rated value  control supply voltage at DC rated value  operating range factor control supply voltage rated value at DC  • initial value  • full-scale value  operating range factor control supply voltage rated  | 24 240 V<br>24 240 V<br>24 240 V                |
| control circuit/ Control  control supply voltage at AC  • at 50 Hz rated value  • at 60 Hz rated value  control supply voltage at DC rated value  operating range factor control supply voltage rated value at DC  • initial value  • full-scale value  operating range factor control supply voltage rated value at AC at 50 Hz   | 24 240 V<br>24 240 V<br>24 240 V<br>0.85<br>1.1 |
| control circuit/ Control  control supply voltage at AC  • at 50 Hz rated value  • at 60 Hz rated value  control supply voltage at DC rated value  operating range factor control supply voltage rated value at DC  • initial value  • full-scale value  operating range factor control supply voltage rated value at AC at 50 Hz  • initial value  | 24 240 V<br>24 240 V<br>24 240 V<br>0.85<br>1.1 |
| control circuit/ Control  control supply voltage at AC  • at 50 Hz rated value  • at 60 Hz rated value  control supply voltage at DC rated value  operating range factor control supply voltage rated value at DC  • initial value  • full-scale value  operating range factor control supply voltage rated value at AC at 50 Hz  • initial value  • full-scale value  operating range factor control supply voltage rated value at AC at 50 Hz  • initial value  • full-scale value   | 24 240 V<br>24 240 V<br>24 240 V<br>0.85<br>1.1 |
| control circuit/ Control  control supply voltage at AC  • at 50 Hz rated value  • at 60 Hz rated value  control supply voltage at DC rated value  operating range factor control supply voltage rated value at DC  • initial value  • full-scale value  operating range factor control supply voltage rated value at AC at 50 Hz  • initial value  • full-scale value  operating range factor control supply voltage rated value at AC at 50 Hz  • operating range factor control supply voltage rated value at AC at 60 Hz                                | 24 240 V<br>24 240 V<br>24 240 V<br>0.85<br>1.1 |
| control circuit/ Control  control supply voltage at AC  at 50 Hz rated value  at 60 Hz rated value  control supply voltage at DC rated value  operating range factor control supply voltage rated value at DC  initial value  full-scale value  operating range factor control supply voltage rated value at AC at 50 Hz  initial value  full-scale value  operating range factor control supply voltage rated value at AC at 50 Hz  initial value  initial value  operating range factor control supply voltage rated value at AC at 60 Hz  initial value | 24 240 V<br>24 240 V<br>24 240 V<br>0.85<br>1.1 |
| control circuit/ Control  control supply voltage at AC  • at 50 Hz rated value  • at 60 Hz rated value  control supply voltage at DC rated value  operating range factor control supply voltage rated value at DC  • initial value  • full-scale value  operating range factor control supply voltage rated value at AC at 50 Hz  • initial value  • full-scale value  operating range factor control supply voltage rated value at AC at 60 Hz  • initial value  • initial value  • full-scale value  | 24 240 V<br>24 240 V<br>24 240 V<br>0.85<br>1.1 |

| 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  |
| lain circuit  |  |
| operating frequency rated value   | 15 400 Hz                                |
| Connections/ Terminals  |  |
| product component removable terminal for auxiliary and control circuit                            | No                                       |
| type of electrical connection   | screw-type terminals                     |
| type of connectable conductor cross-sections  |  |
| • solid   | 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)       |
| <ul> <li>finely stranded with core end processing</li> </ul>                                      | 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)       |
| <ul> <li>finely stranded without core end processing</li> </ul>                                   | 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)       |
| <ul> <li>at AWG cables solid</li> </ul>   | 1x (20 12), 2x (20 14)                   |
| at AWG cables stranded  | 1x (18 14), 2x (18 16)                   |
| connectable conductor cross-section   |  |
| • solid   | 0.5 4 mm²                                |
| <ul> <li>finely stranded with core end processing</li> </ul>                                      | 0.5 2.5 mm²                              |
| <ul> <li>finely stranded without core end processing</li> </ul>                                   | 0.5 2.5 mm <sup>2</sup>                  |
| AWG number as coded connectable conductor cross section   |  |
| • solid   | 20 12                                    |
| <ul><li>stranded</li></ul>  | 18 14                                    |
| tightening torque with screw-type terminals   | 0.6 0.8 N·m                              |
| nstallation/ mounting/ dimensions   |  |
| mounting position   | any                                      |
| fastening method  | snap-on fastening on 35 mm standard rail |
| height  | 78 mm                                    |
| width   | 22.5 mm                                  |
| depth   | 100 mm                                   |
| required spacing  |  |
| with side-by-side mounting  |  |
| — forwards  | 0 mm                                     |
| — 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                                     |
|   | 0 mm                                     |
|   |  |
| — backwards   |  |
| <ul><li>backwards</li><li>upwards</li></ul>   | 0 mm                                     |
| <ul><li>backwards</li><li>upwards</li><li>downwards</li></ul>                                     | 0 mm<br>0 mm                             |
| <ul><li>backwards</li><li>upwards</li><li>downwards</li><li>at the side</li></ul>                 | 0 mm                                     |
| backwards upwards downwards at the side ambient conditions  | 0 mm<br>0 mm<br>0 mm                     |
| backwards upwards downwards at the side  Ambient conditions  ambient temperature during operation | 0 mm<br>0 mm                             |
| backwards upwards downwards at the side ambient conditions  | 0 mm<br>0 mm<br>0 mm                     |













**Declaration of** Conformity

Marine / Shipping

other







Confirmation

## **Further information**

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=3UG4582-1AW31

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4582-1AW31

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

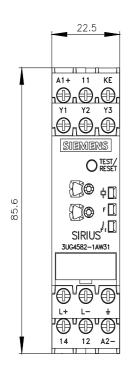
https://support.industry.siemens.com/cs/ww/en/ps/3UG4582-1AW31

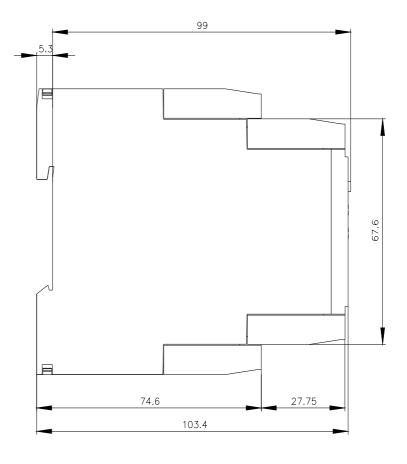
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

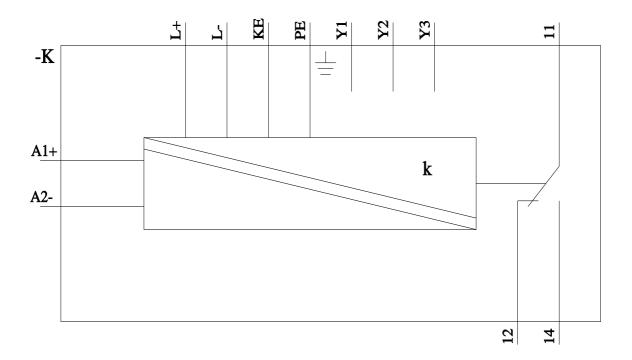
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3UG4582-1AW31&lang=en

**Characteristic: Derating** 

https://support.industry.siemens.com/cs/ww/en/ps/3UG4582-1AW31/manual







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