



Insulation monitoring relay for ungrounded (IT) supply systems 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 change-over 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 | |
| • for monitoring | AC/DC |
| • of the operating voltage for actuation | 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 | |
| • error memory | 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 | |
| • initial value | 0.85 |
| • full-scale value | 1.1 |
| Measuring circuit | |
| measurable line frequency | 50 ... 60 Hz |
| measurable voltage at AC | 250 ... 0 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 | 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 | 2x (0.75 ... 2.5 mm ²) |
| • finely stranded with core end processing | 2x (0.75 ... 2.5 mm ²) |
| connectable conductor cross-section | |
| • solid | 0.75 ... 2.5 mm ² |
| • finely stranded with core end processing | 0.75 ... 2.5 mm ² |
| AWG number as coded connectable conductor cross section | |
| • solid | 20 ... 12 |
| • stranded | 18 ... 14 |
| tightening torque with screw-type terminals | 0.6 ... 0.8 N·m |

Installation/ 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 |
| — backwards | 0 mm |
| — upwards | 0 mm |
| — downwards | 0 mm |
| — at the side | 0 mm |

Ambient conditions

| | |
|--------------------------------------|----------------|
| ambient temperature during operation | -25 ... +60 °C |
|--------------------------------------|----------------|

Certificates/ approvals

| | | |
|---------------------------------|------------|----------------------------------|
| General Product Approval | EMC | Declaration of Conformity |
|---------------------------------|------------|----------------------------------|



[Confirmation](#)



| | | | |
|-----------------------|--------------------------|--------------------------|--------------|
| Declaration of | Test Certificates | Marine / Shipping | other |
|-----------------------|--------------------------|--------------------------|--------------|

[Special Test Certificate](#)



[Confirmation](#)

Railway

[Vibration and Shock](#)

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=3UG4582-1AW30>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4582-1AW30>

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

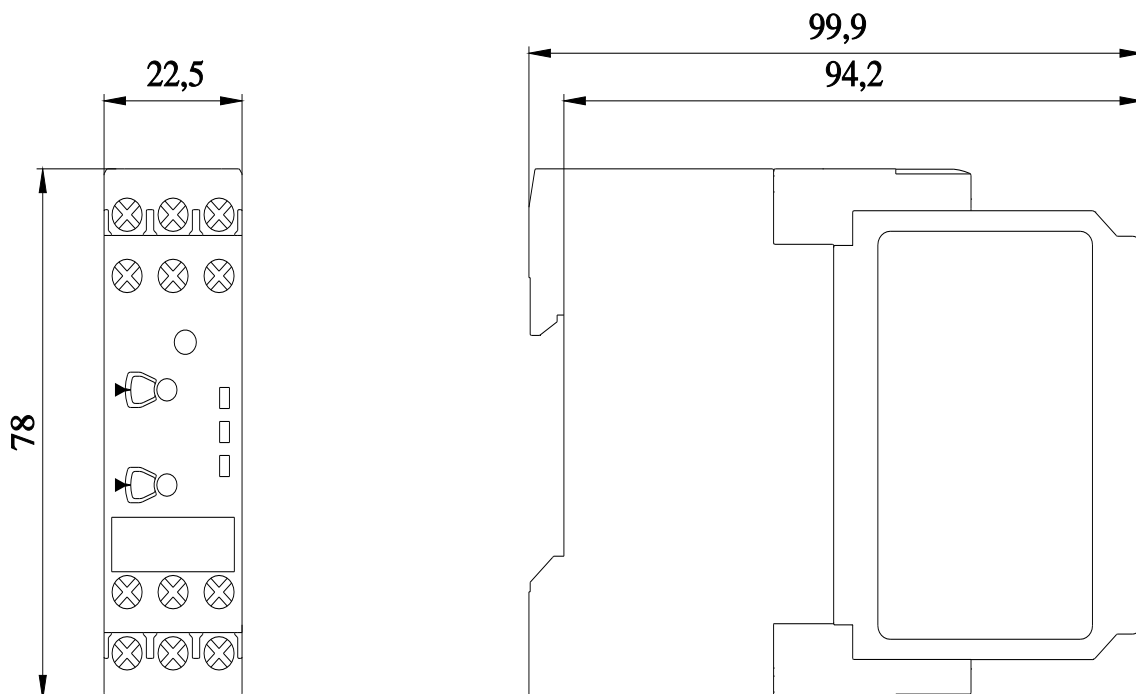
<https://support.industry.siemens.com/cs/ww/en/ps/3UG4582-1AW30>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG4582-1AW30&lang=en

Characteristic: Derating

<https://support.industry.siemens.com/cs/ww/en/ps/3UG4582-1AW30/manual>



last modified:

8/26/2021