

Insulation monitoring relay for ungrounded (IT) supply systems up to 400 V AC, 15-400 Hz and up to 600 V DC Measuring range 1-100 / 2-200 kohm Supply voltage 24-240 V AC/DC Width 45 mm 1 + 1 or 2 change-over contacts 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 |
| • for actuation | AC/DC |
| • of the control supply voltage | AC/DC |
| Surge voltage resistance rated value | 4 000 V |
| Protection class IP | IP20 |
| Thermal current of the switching element with contacts maximum | 4 A |
| Reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 | K |
| Reference code acc. to DIN EN 81346-2 | K |
| Reference code acc. to DIN EN 61346-2 | K |

Product Function

| | |
|------------------|--|
| Product function | |
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|---|------------------------------------|
| • Fault storage | 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 | 15 ... 400 Hz |
| 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 | 2 |
| Main circuit | |
| Operating frequency rated value | 15 ... 400 Hz |
| Connections/ Terminals | |
| Product function | |
| • 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 | |

| | |
|---|---|
| <ul style="list-style-type: none"> • solid • finely stranded with core end processing | <p>0.75 ... 2.5 mm²</p> <p>0.75 ... 2.5 mm²</p> |
| AWG number as coded connectable conductor cross section | |
| <ul style="list-style-type: none"> • solid • stranded | <p>20 ... 12</p> <p>18 ... 14</p> |
| Tightening torque | |
| <ul style="list-style-type: none"> • with screw-type terminals | 0.6 ... 0.8 N·m |

Installation/ mounting/ dimensions

| | |
|--|---|
| Mounting position | any |
| Mounting type | snap-on fastening on 35 mm standard rail |
| Height | 78 mm |
| Width | 45 mm |
| Depth | 100 mm |
| Required spacing | |
| <ul style="list-style-type: none"> • with side-by-side mounting <ul style="list-style-type: none"> — forwards — Backwards — upwards — downwards — at the side • for grounded parts <ul style="list-style-type: none"> — forwards — Backwards — upwards — at the side — downwards • for live parts <ul style="list-style-type: none"> — forwards — Backwards — upwards — downwards — at the side | <p>0 mm</p> <p>0 mm</p> <p>0 mm</p> <p>0 mm</p> <p>0 mm</p> <p>0 mm</p> <p>0 mm</p> <p>0 mm</p> <p>0 mm</p> <p>0 mm</p> <p>0 mm</p> <p>0 mm</p> <p>0 mm</p> <p>0 mm</p> <p>0 mm</p> |

Certificates/ approvals

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



CCC



UL



RCM



EG-Konf.

[Miscellaneous](#)

| | | | |
|-------------------|-------------------|-------|---------|
| Test Certificates | Marine / Shipping | other | Railway |
|-------------------|-------------------|-------|---------|

[Special Test Certificate](#)



[Confirmation](#)

[Vibration and Shock](#)

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

www.siemens.com/sirius/catalogs

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3UG4583-1CW30>

Cax online generator

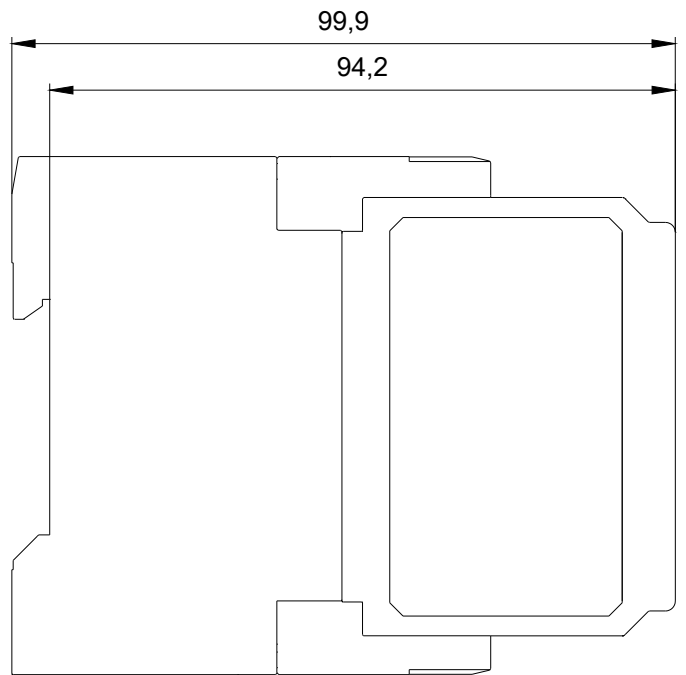
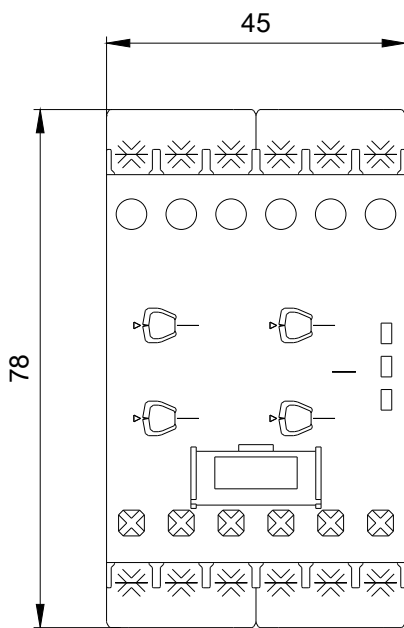
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4583-1CW30>

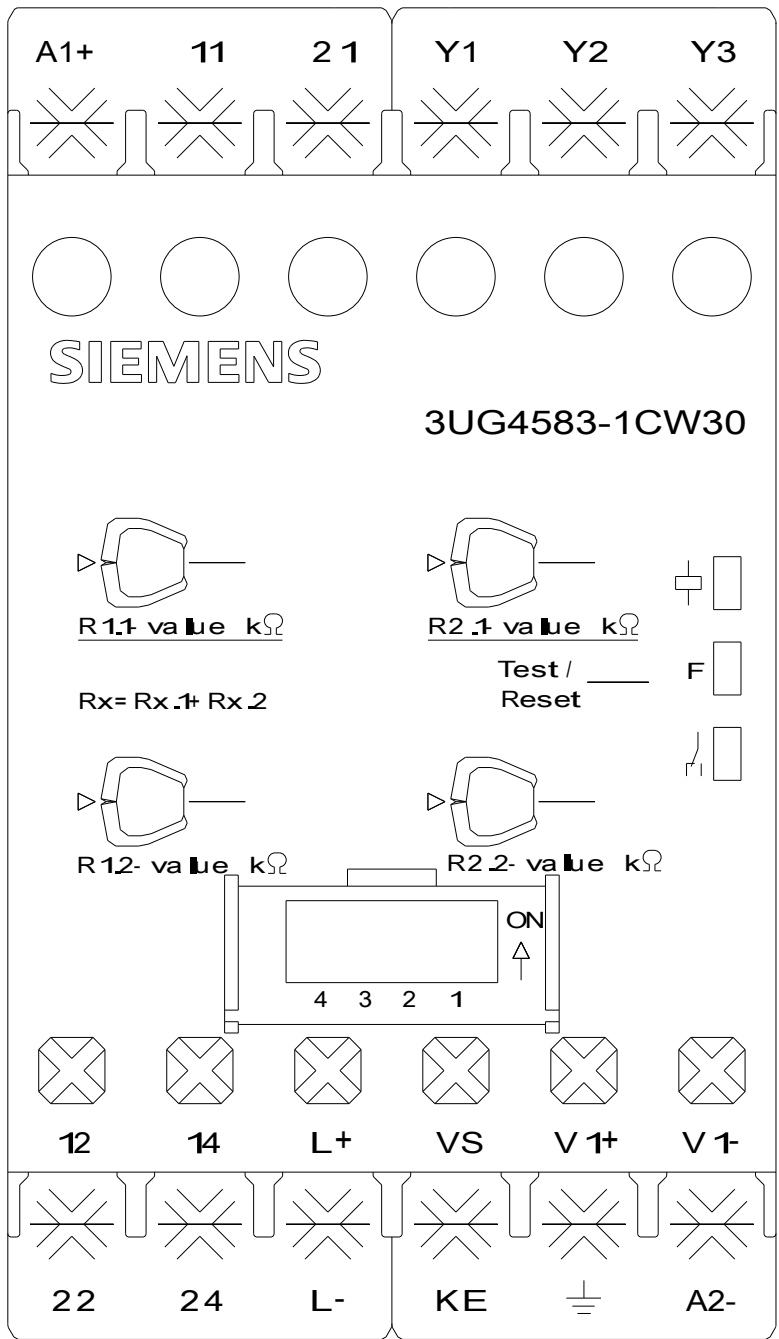
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

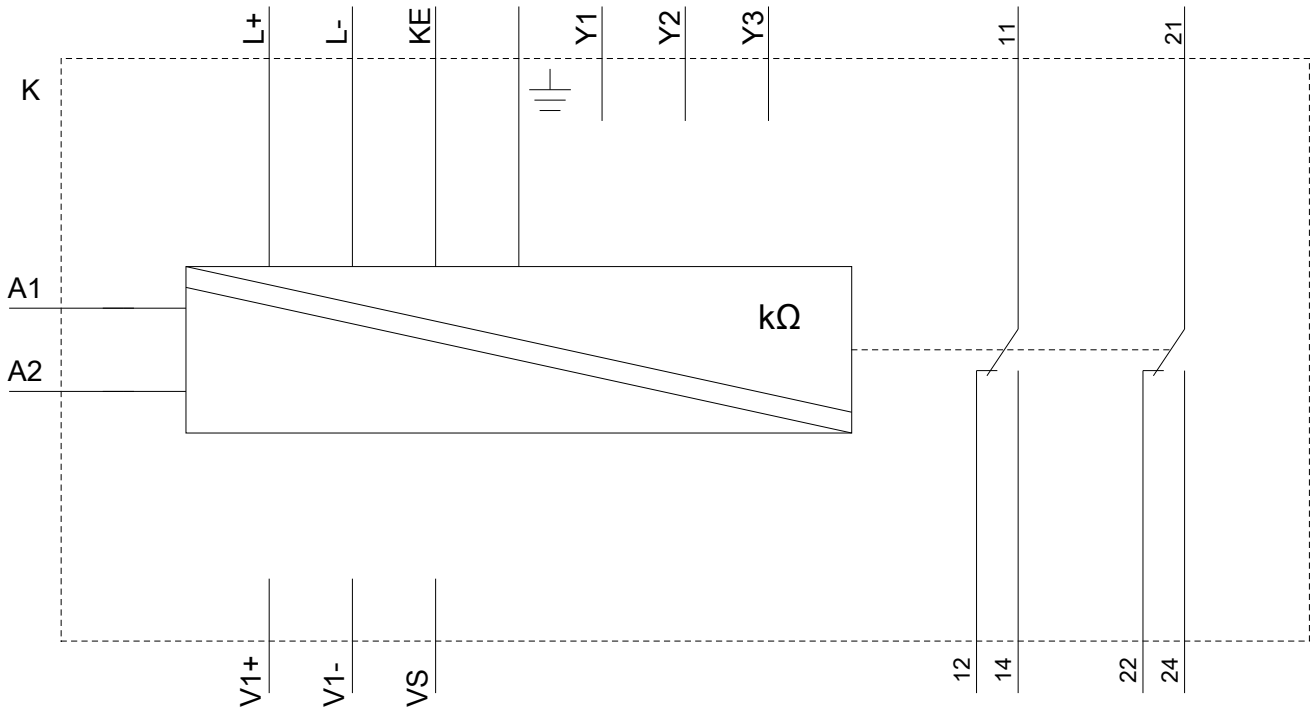
<https://support.industry.siemens.com/cs/ww/en/ps/3UG4583-1CW30>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG4583-1CW30&lang=en







last modified:

11/20/2019