



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

<b>product brand name</b>	SIRIUS
<b>product designation</b>	Insulation monitoring relay with analog setting
<b>product type designation</b>	3UG4
<b>General technical data</b>	
<b>product function</b>	Insulation monitor
<b>type of voltage</b>	
• for monitoring	AC/DC
• of the operating voltage for actuation	AC/DC
• of the control supply voltage	AC/DC
<b>surge voltage resistance rated value</b>	4 000 V
<b>protection class IP</b>	IP20
<b>thermal current of the switching element with contacts maximum</b>	4 A
<b>reference code according to IEC 81346-2</b>	K
<b>Substance Prohibitance (Date)</b>	05/01/2012
<b>Product Function</b>	
<b>product function</b>	
• error memory	Yes
<b>Control circuit/ Control</b>	
<b>control supply voltage at AC</b>	
• at 50 Hz rated value	24 ... 240 V
• at 60 Hz rated value	24 ... 240 V
<b>control supply voltage at DC rated value</b>	24 ... 240 V
<b>operating range factor control supply voltage rated value at DC</b>	
• initial value	0.85
• full-scale value	1.1
<b>operating range factor control supply voltage rated value at AC at 50 Hz</b>	
• initial value	0.85
• full-scale value	1.1
<b>operating range factor control supply voltage rated value at AC at 60 Hz</b>	
• initial value	0.85
• full-scale value	1.1
<b>Measuring circuit</b>	
<b>measurable line frequency</b>	15 ... 400 Hz
<b>measurable voltage at AC</b>	400 ... 0 V
<b>Auxiliary circuit</b>	
<b>number of NC contacts for auxiliary contacts</b>	0

number of NC contacts delayed switching	0
<b>number of NO contacts for auxiliary contacts</b>	0
number of NO contacts delayed switching	0
<b>number of CO contacts</b>	
• delayed switching	2

### Main circuit

<b>operating frequency rated value</b>	15 ... 400 Hz
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### Connections/ Terminals

<b>product component removable terminal for auxiliary and control circuit</b>	No
<b>type of electrical connection</b>	screw-type terminals
<b>type of connectable conductor cross-sections</b>	
• solid	2x (0.75 ... 2.5 mm <sup>2</sup> )
• finely stranded with core end processing	2x (0.75 ... 2.5 mm <sup>2</sup> )
<b>connectable conductor cross-section</b>	
• solid	0.75 ... 2.5 mm <sup>2</sup>
• finely stranded with core end processing	0.75 ... 2.5 mm <sup>2</sup>
<b>AWG number as coded connectable conductor cross section</b>	
• solid	20 ... 12
• stranded	18 ... 14
tightening torque with screw-type terminals	0.6 ... 0.8 N·m

### Installation/ mounting/ dimensions

<b>mounting position</b>	any
<b>fastening method</b>	snap-on fastening on 35 mm standard rail
<b>height</b>	78 mm
<b>width</b>	45 mm
<b>depth</b>	100 mm
<b>required spacing</b>	
• 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
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### Certificates/ approvals

<b>General Product Approval</b>	<b>EMC</b>	<b>Declaration of Conformity</b>
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[Confirmation](#)



<b>Declaration of</b>	<b>Test Certificates</b>	<b>Marine / Shipping</b>	<b>other</b>
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## Conformity

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

**Characteristic: Derating**

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

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