

insulation monitoring relay for non-grounded (IT) networks 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 changeover 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
• adjustable open/closed-circuit current principle	No
• manual RESET	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>	0 ... 400 V

Auxiliary circuit		
<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	
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	1x (0.5 ... 4.0 mm <sup>2</sup> ), 2x (0.5 ... 2.5 mm <sup>2</sup> )	
• finely stranded with core end processing	1x (0.5 ... 2.5 mm <sup>2</sup> ), 2x (0.5 ... 1.5 mm <sup>2</sup> )	
• finely stranded without core end processing	1x (0.5 ... 2.5 mm <sup>2</sup> ), 2x (0.5 ... 1.5 mm <sup>2</sup> )	
• at AWG cables solid	1x (20 ... 12), 2x (20 ... 14)	
• at AWG cables stranded	1x (18 ... 14), 2x (18 ... 16)	
<b>connectable conductor cross-section</b>		
• solid	0.5 ... 4 mm <sup>2</sup>	
• finely stranded with core end processing	0.5 ... 2.5 mm <sup>2</sup>	
• finely stranded without core end processing	0.5 ... 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	
Certificates/ approvals		
<b>General Product Approval</b>	<b>EMC</b>	<b>Declaration of Conformity</b>



Confirmation



EG-Konf.

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=3UG4583-1CW31>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4583-1CW31>

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

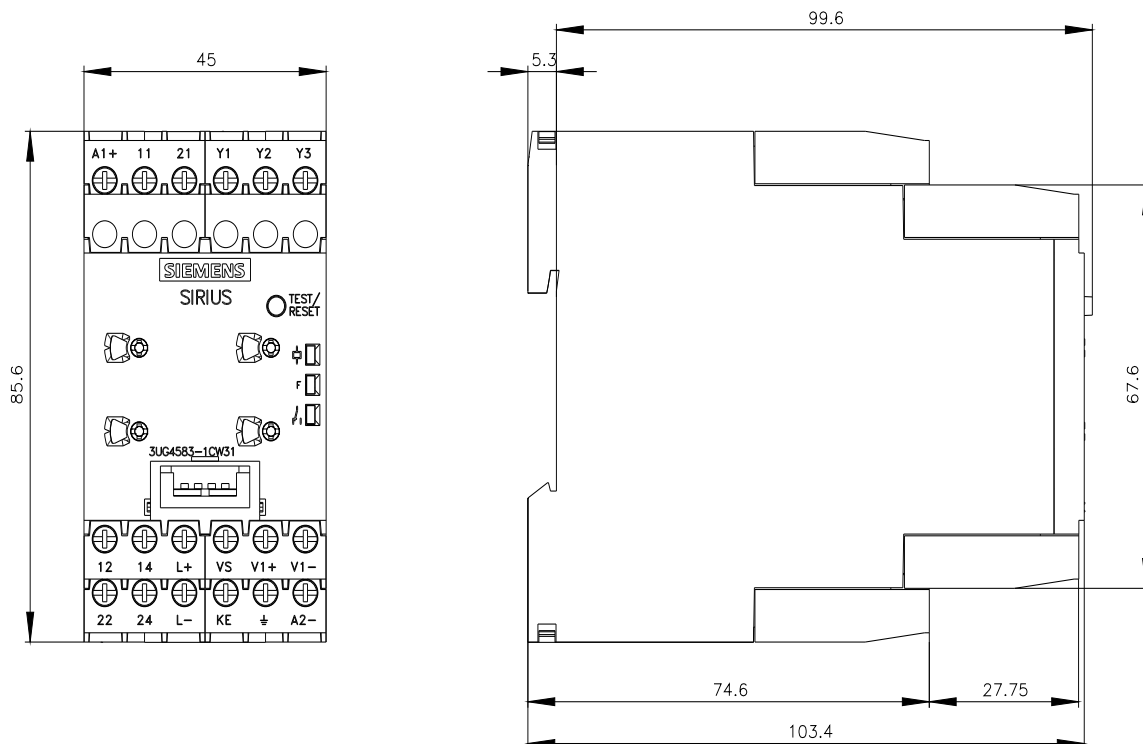
<https://support.industry.siemens.com/cs/ww/en/ps/3UG4583-1CW31>

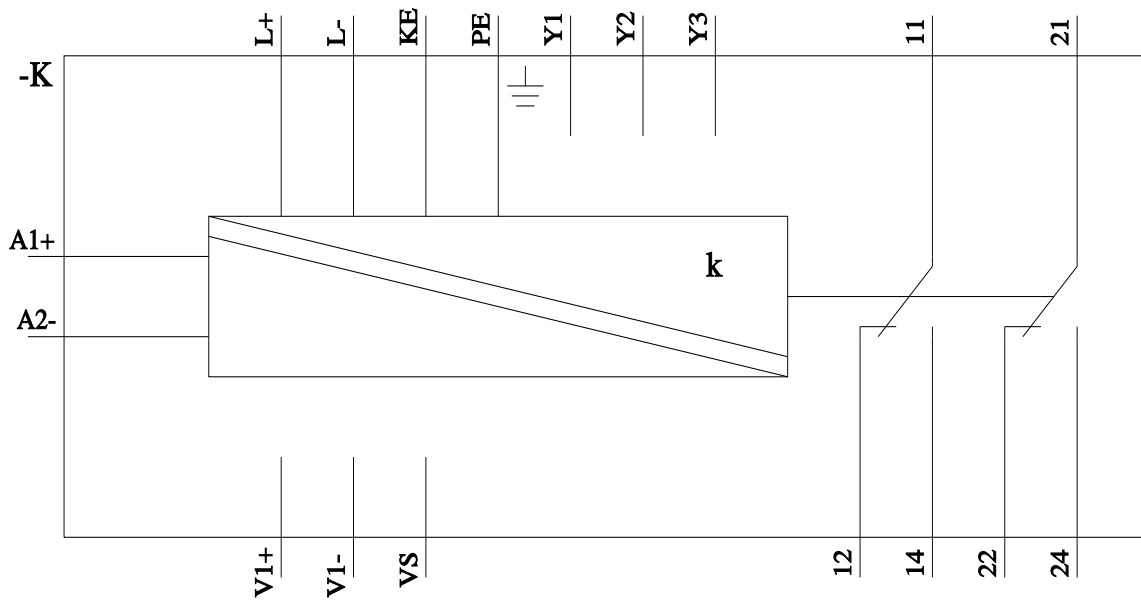
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3UG4583-1CW31&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG4583-1CW31&lang=en)

Characteristic: Derating

<https://support.industry.siemens.com/cs/ww/en/ps/3UG4583-1CW31/manual>





last modified:

7/13/2022 