



Insulation monitoring relay for ungrounded (IT) supply systems up to 400 V AC, 50-60 Hz 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	
<ul style="list-style-type: none"> for monitoring of the operating voltage for actuation of the control supply voltage 	AC AC/DC 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 style="list-style-type: none"> error memory 	Yes
Control circuit/ Control	
control supply voltage at AC	
<ul style="list-style-type: none"> at 50 Hz rated value at 60 Hz rated value 	24 ... 240 V 24 ... 240 V
control supply voltage at DC rated value	24 ... 240 V
operating range factor control supply voltage rated value at DC	
<ul style="list-style-type: none"> initial value full-scale value 	0.85 1.1
operating range factor control supply voltage rated value at AC at 50 Hz	
<ul style="list-style-type: none"> initial value full-scale value 	0.85 1.1
operating range factor control supply voltage rated value at AC at 60 Hz	
<ul style="list-style-type: none"> initial value full-scale value 	0.85 1.1
Measuring circuit	
measurable line frequency	50 ... 60 Hz
measurable voltage at AC	400 ... 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	50 ... 60 Hz
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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
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Certificates/ approvals

General Product Approval	EMC	Declaration of Conformity
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[Confirmation](#)



Declaration of	Test Certificates	Marine / Shipping	other
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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=3UG4581-1AW30>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4581-1AW30>

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

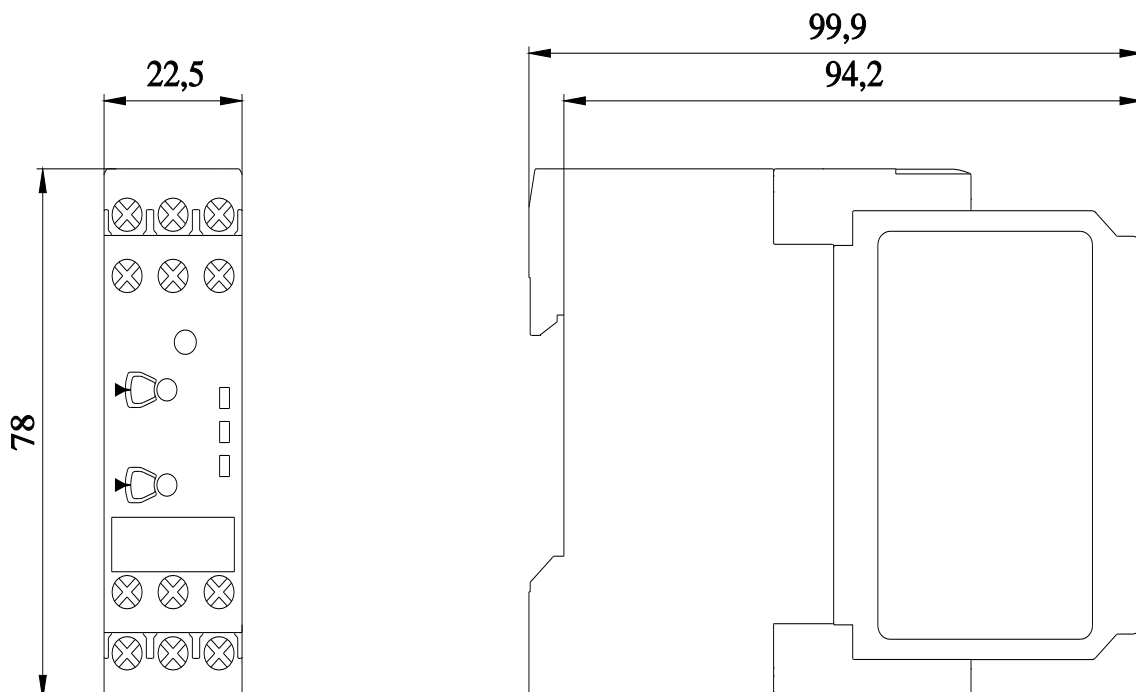
<https://support.industry.siemens.com/cs/ww/en/ps/3UG4581-1AW30>

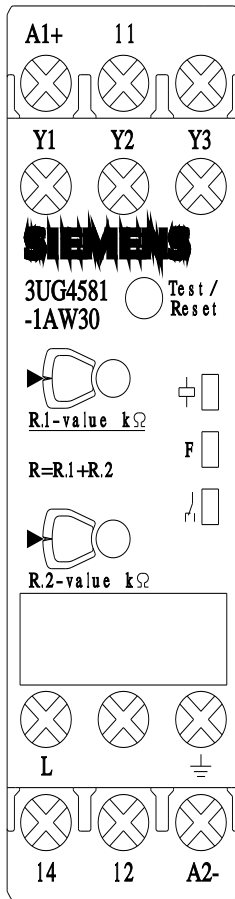
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG4581-1AW30&lang=en

Characteristic: Derating

<https://support.industry.siemens.com/cs/ww/en/ps/3UG4581-1AW30/manual>





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3/22/2022 