

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	
<ul style="list-style-type: none"> • for monitoring • of the operating voltage for actuation • of the control supply voltage 	AC/DC 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 acc. to IEC 81346-2	K

Product Function

product function	
<ul style="list-style-type: none"> • 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
----------------------------------	--------------

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 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	
• 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	
<ul style="list-style-type: none"> • solid • stranded 	20 ... 12 18 ... 14
tightening torque	
<ul style="list-style-type: none"> • 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	
<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 	0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm

Ambient conditions	
ambient temperature	
<ul style="list-style-type: none"> • during operation 	-25 ... +60 °C

Certificates/ approvals

General Product Approval	EMC	Declaration of Conformity	Test Certificates
--------------------------	-----	---------------------------	-------------------



CCC



UL



RCM



EG-Konf.

[Miscellaneous](#)

[Special Test Certificate](#)

Marine / Shipping	other	Railway
-------------------	-------	---------



[Confirmation](#)

[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,...)

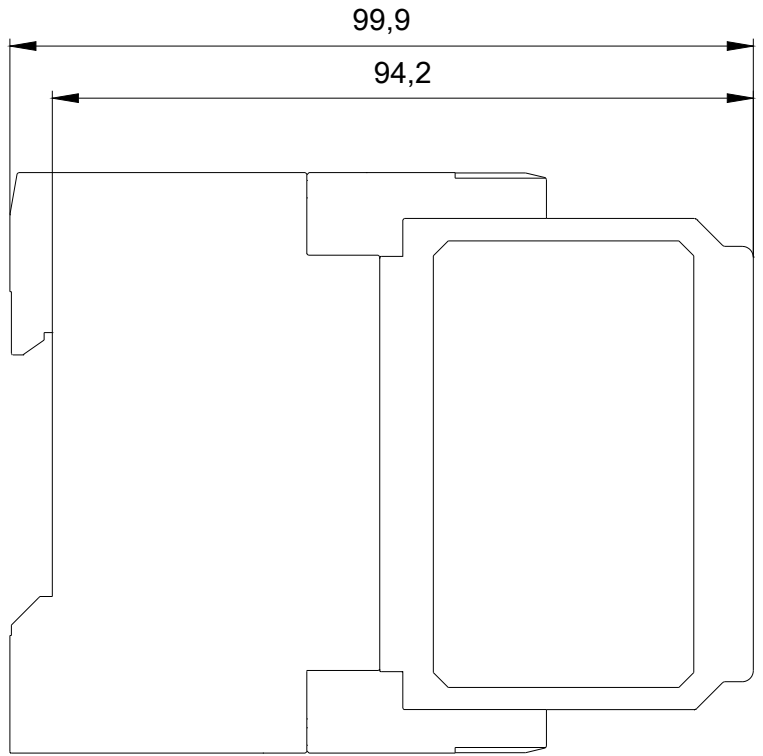
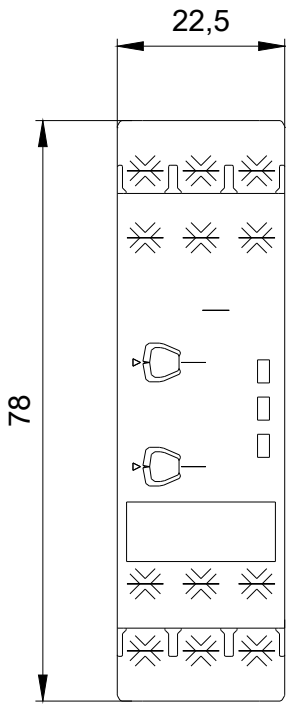
<https://support.industry.siemens.com/cs/ww/en/ps/3UG4582-1AW30>

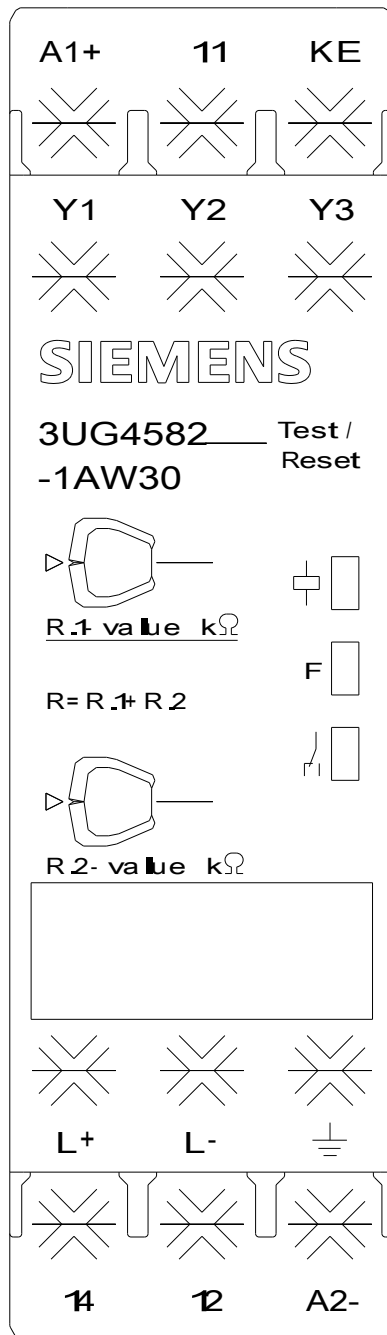
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

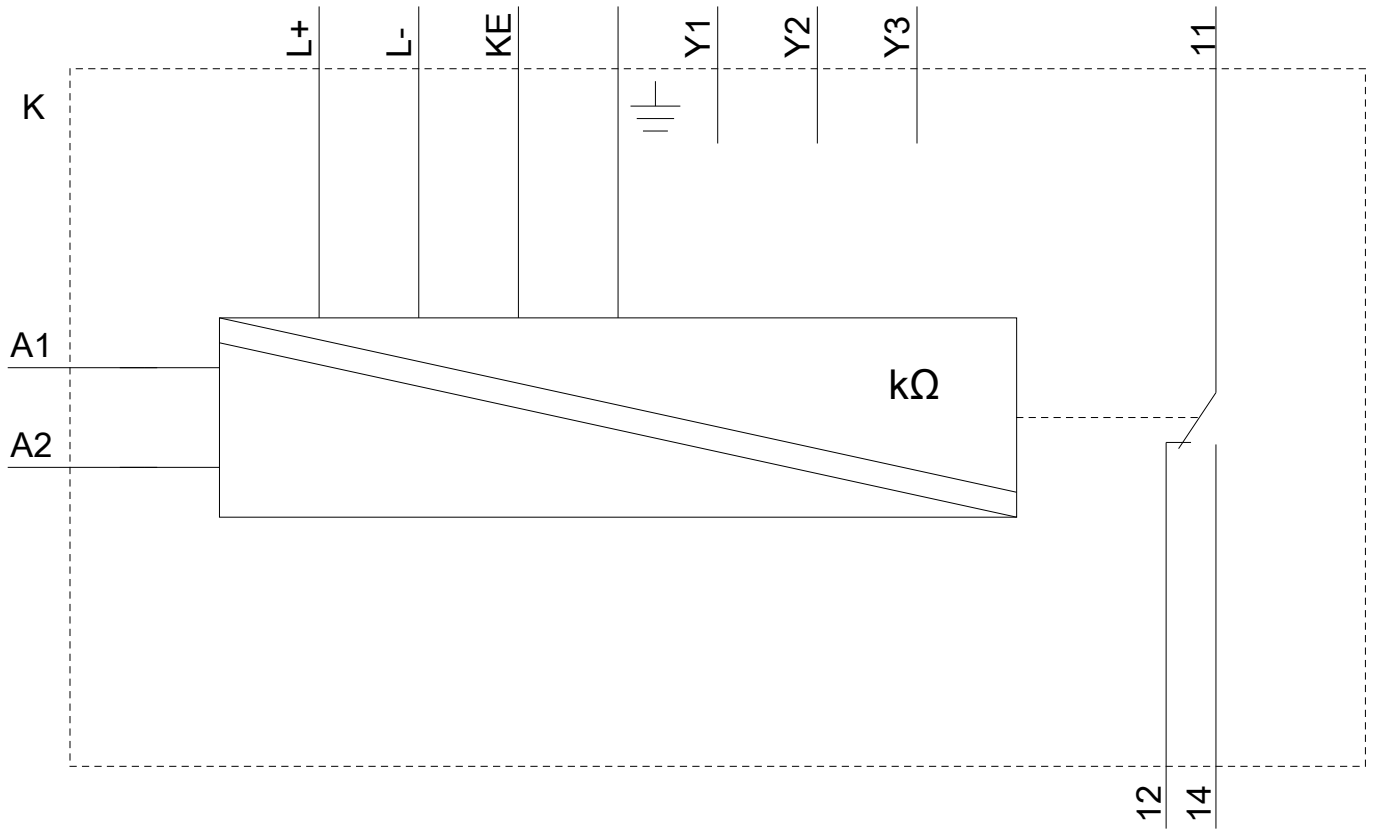
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG4582-1AW30&lang=en

Characteristic: Derating

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







last modified:

11/23/2020