

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 • for monitoring • 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 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	

• 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	50 ... 60 Hz
Auxiliary circuit	
Number of NC contacts for auxiliary contacts	0
Number of NO contacts for auxiliary contacts	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	

• solid	20 ... 12
• stranded	18 ... 14
Tightening torque	
• 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	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

Certificates/ approvals

General Product Approval			EMC	Declaration of Conformity	
					Miscellaneous
CCC	UL		RCM	EG-Konf.	

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=3UG4581-1AW30>

Cax online generator

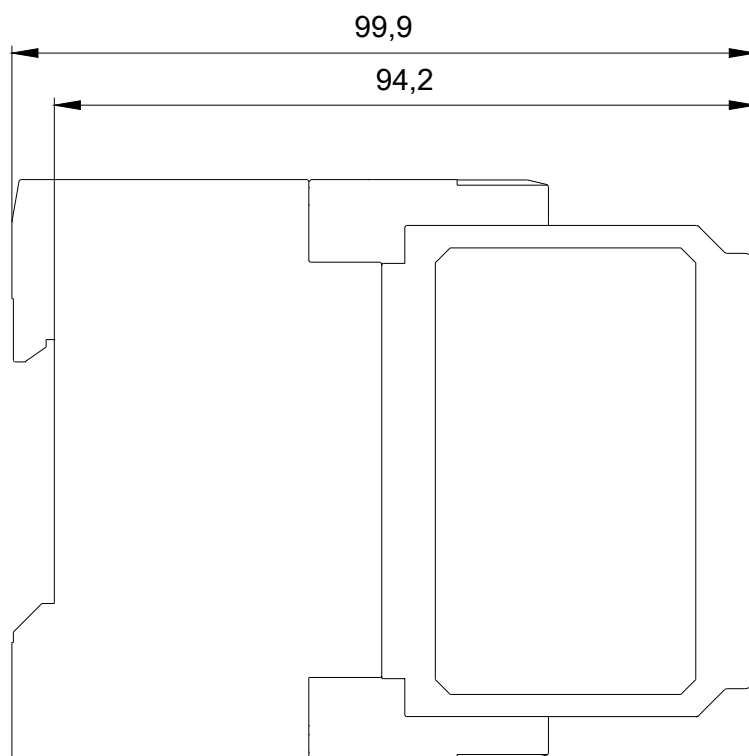
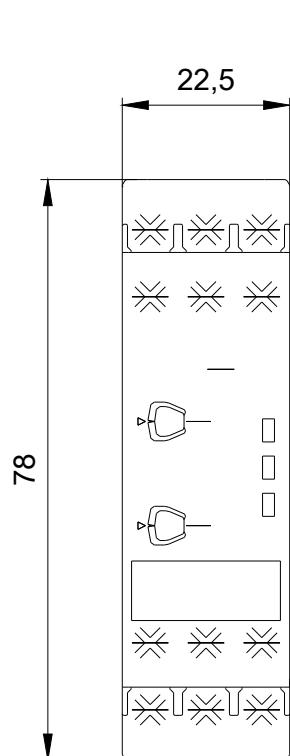
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4581-1AW30>

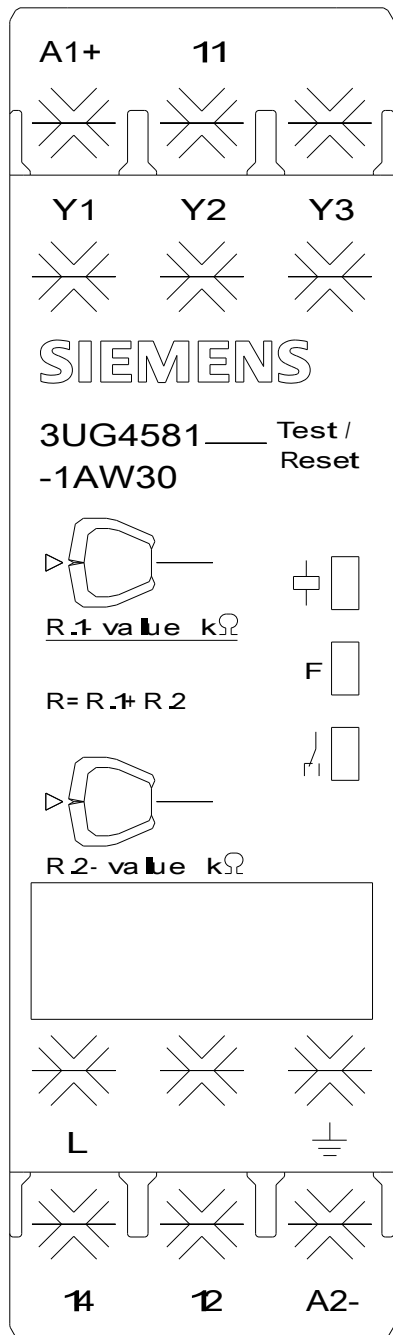
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

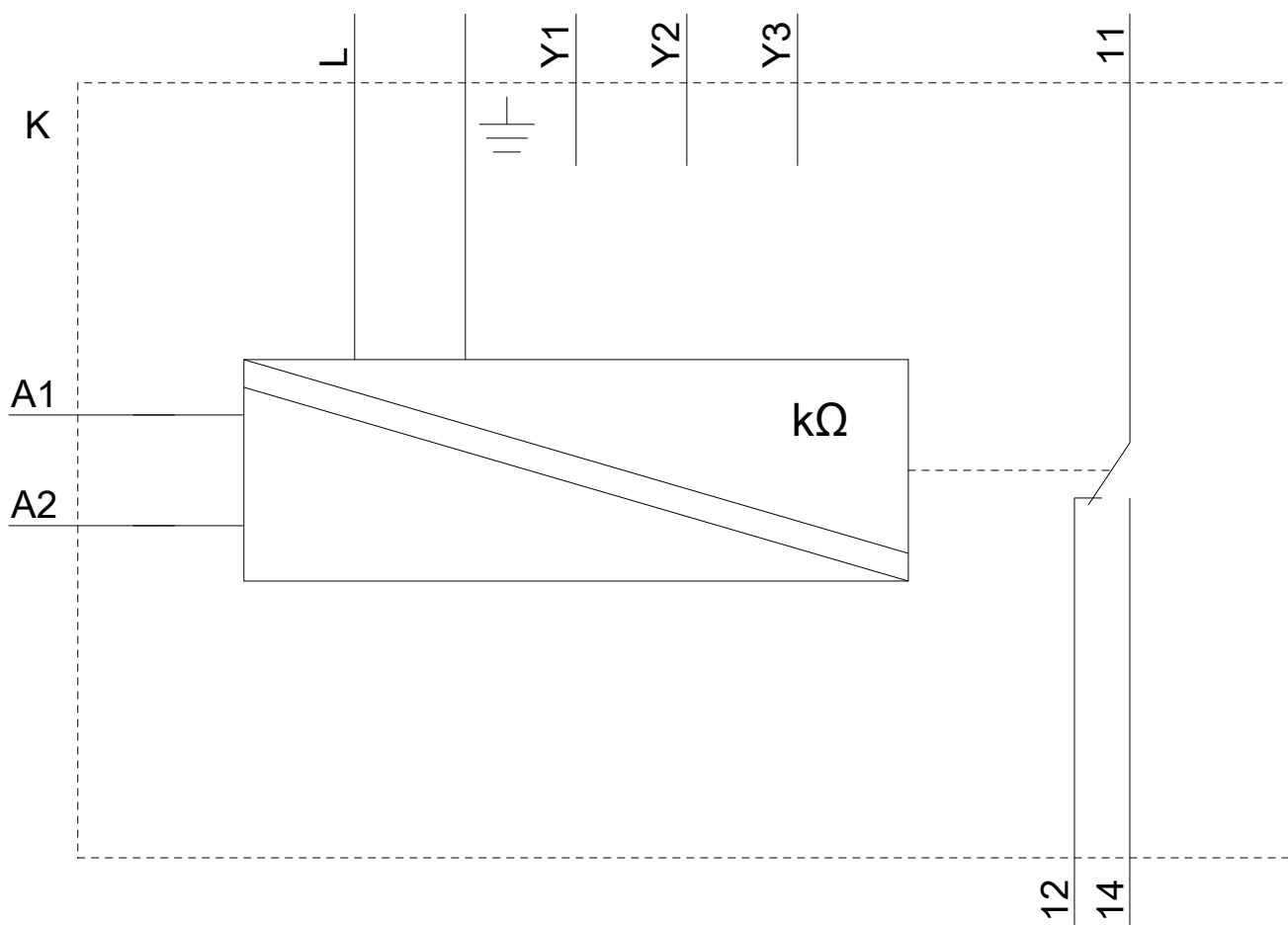
<https://support.industry.siemens.com/cs/ww/en/ps/3UG4581-1AW30>

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







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