SIEMENS

Data sheet 3UG4581-1AW30



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	AC
 of the operating voltage for actuation 	AC/DC
of the control supply voltage	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	
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
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
Connections/ Terminals	
product component removable terminal for auxiliary	No
and control circuit	
type of electrical connection	screw-type terminals
type of connectable conductor cross-sections	
• solid	2x (0.75 2.5 mm²)
 finely stranded with core end processing 	2x (0.75 2.5 mm²)
connectable conductor cross-section	
• solid	0.75 2.5 mm²
 finely stranded with core end processing 	0.75 2.5 mm²
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 conditions ambient temperature during operation	-25 +60 °C
ambient temperature during operation	-25 +60 °C
	-25 +60 °C Declaration of



Confirmation









Declaration of Test Certificates Marine / Shipping other



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,...)

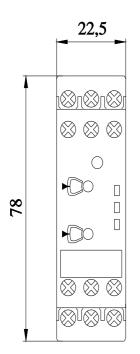
https://support.industry.siemens.com/cs/ww/en/ps/3UG4581-1AW30

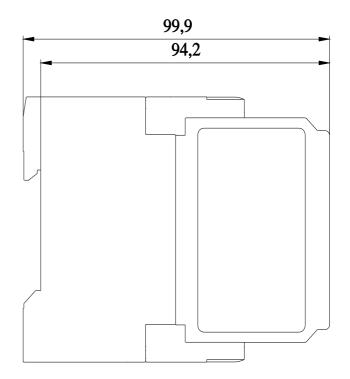
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

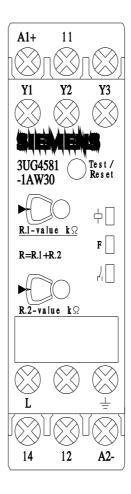
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG4581-1AW30&lang=en

Characteristic: Derating

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







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