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	К
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	0 400 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	
lain circuit		
operating frequency rated value	50 60 Hz	
onnections/ 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 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	
stallation/ mounting/ dimensions		
mounting position	any	
fastening method	snap-on fastening on 35 mm DIN 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	O IIIIII	
— forwards	0 mm	
— backwards	0 mm	
	0 mm	
— upwards — at the side	0 mm	
— at the side — downwards	0 mm	
	V IIIIII	
for live parts — forwards	0 mm	
	0 mm	
— backwards	0 mm	
— upwards	0 mm	
— downwards	0 mm	
— at the side	0 mm	
mbient conditions		
ambient temperature during operation	-25 +60 °C	
ertificates/ approvals		











Declaration of Conformity

Test Certificates Marine / Shipping

other







Railway

Vibration and Shock

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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,...)

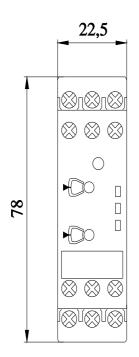
https://support.industry.siemens.com/cs/ww/en/ps/3UG4581-1AW30

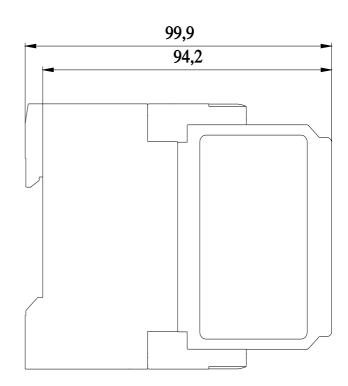
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

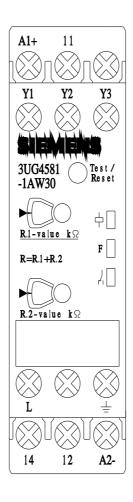
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG4581-1AW30&lang=en

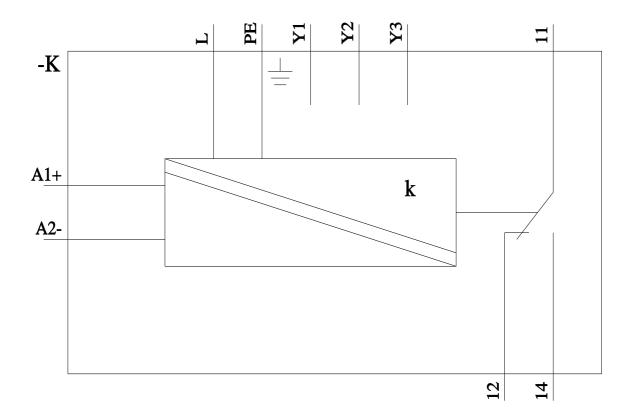
Characteristic: Derating

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









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