SIEMENS

Data sheet 3UG4621-2AW30



Digital monitoring relay Current monitoring, 22.5 mm from 2-500 mA AC/DC Overshoot and undershoot 24 to 240 V AC/DC 50 to 60 Hz DC and AC ON delay and noise pulses delay 0.1 to 20 s Hysteresis 0.1 to 250 mA 1 change-over contact with or without fault buffer spring-type connection system

Figure similar

product brand name product designation

Current monitoring relay with digital setting

SIRIUS

product type designation	3UG4
General technical data	
product function	Current monitoring relay
design of the display	LCD
insulation voltage for overvoltage category III according to IEC 60664	
 with degree of pollution 3 rated value 	690 V
degree of pollution	3
surge voltage resistance rated value	4 kV
maximum permissible voltage for safe isolation	
 between auxiliary and auxiliary circuit 	300 V
 between control and auxiliary circuit 	300 V
protection class IP	IP20
shock resistance according to IEC 60068-2-27	sinusoidal half-wave 15g / 11 ms
vibration resistance according to IEC 60068-2-6	1 6 Hz: 15 mm, 6 500 Hz: 2g
mechanical service life (operating cycles) typical	10 000 000
electrical endurance (operating cycles) at AC-15 at 230 V typical	100 000
thermal current of the switching element with contacts maximum	5 A
reference code according to IEC 81346-2	K
relative repeat accuracy	1 %
Substance Prohibitance (Date)	05/01/2012
Product Function	

product function Yes • overcurrent detection 1 phase • overcurrent detection 3 phase No • undercurrent detection 1 phase Yes • undercurrent detection 3 phases No Yes overcurrent detection DC • undercurrent detection DC Yes • current window recognition DC Yes • voltage window recognition 1 phase No • voltage window recognition 3 phase No • adjustable open/closed-circuit current principle Yes • external reset Yes • auto-RESET Yes Supply voltage type of voltage of the supply voltage AC/DC

supply voltage 1 at AC	
• at 50 Hz	20.4 264 V
• at 60 Hz	20.4 264 V
supply voltage 1 at DC	20.4 264 V
Measuring circuit	12.7
type of current for monitoring	AC/DC
measurable current	0.003 0.6 A 40 500 Hz
measurable line frequency adjustable current	40 500 HZ
1	0.003 0.5 A
• 2	0.003 0.5 A
adjustable response delay time	
when starting	0.1 20 s
 with lower or upper limit violation 	0.1 20 s
adjustable switching hysteresis for measured current	0.1 250 mA
value	
buffering time in the event of power failure minimum	10 ms
accuracy of digital display	+/-1 digit
relative temperature-related measurement deviation	5 %
internal resistance of the measuring circuit	500 mΩ
Precision	F 0/
relative metering precision	5 %
temperature drift per °C	0.1 %/°C
Auxiliary circuit	
number of NC contacts delayed switching	0
number of NO contacts delayed switching	0
number of CO contacts delayed switching	5 000 1/h
operating frequency with 3RT2 contactor maximum Main circuit	0 000 1/11
	1
number of poles for main current circuit operating voltage rated value	1 24 240 V
ampacity of the output relay at AC-15	24 240 V
• at 250 V at 50/60 Hz	3 A
• at 400 V at 50/60 Hz	3 A
ampacity of the output relay at DC-13	
• at 24 V	1 A
● at 125 V	0.2 A
• at 250 V	0.1 A
operational current at 17 V minimum	0.005 A
continuous current of the DIAZED fuse link of the	4 A
output relay	
Electromagnetic compatibility	
conducted interference	2 1/1
 due to burst according to IEC 61000-4-4 due to conductor-earth surge according to IEC 	2 kV 2 kV
61000-4-5	LIV
due to conductor-conductor surge according to IEC	1 kV
61000-4-5	
field-based interference according to IEC 61000-4-3	10 V/m
electrostatic discharge according to IEC 61000-4-2	6 kV contact discharge / 8 kV air discharge
Galvanic isolation	
design of the electrical isolation	Protective separation
galvanic isolation	Vac
between input and output between the cutputs	Yes Yes
between the outputsbetween the voltage supply and other circuits	Yes
Connections/ Terminals	160
	Von
product component removable terminal for main circuit	Yes
product component removable terminal for auxiliary	Yes
and control circuit	
type of electrical connection	
 for main current circuit 	spring-loaded terminals

• for auxiliary and control circuit spring-loaded terminals type of connectable conductor cross-sections 2x (0.25 ... 1.5 mm²) solid • finely stranded with core end processing 2 x (0.25 ... 1.5 mm²) • finely stranded without core end processing 2x (0.25 ... 1.5 mm²) • at AWG cables solid 2x (24 ... 16) • at AWG cables stranded 2x (24 ... 16) connectable conductor cross-section solid 0.25 ... 1.5 mm² • finely stranded with core end processing 0.25 ... 1.5 mm² 0.25 ... 1.5 mm² • finely stranded without core end processing AWG number as coded connectable conductor cross section solid 24 ... 16 stranded 24 ... 16 Installation/ mounting/ dimensions mounting position any fastening method snap-on mounting height 94 mm width 22.5 mm depth 91 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 0 mm - upwards - 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 2 000 m installation altitude at height above sea level maximum ambient temperature · during operation -25 ... +60 °C during storage -40 ... +85 °C -40 ... +85 °C during transport Certificates/ approvals **Declaration of General Product Approval EMC** Conformity Confirmation









Test Certificates Marine / Shipping other Conformity



Special Test Certific-<u>ate</u>

Type Test Certificates/Test Report





Confirmation

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=3UG4621-2AW30

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3UG4621-2AW30}$

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

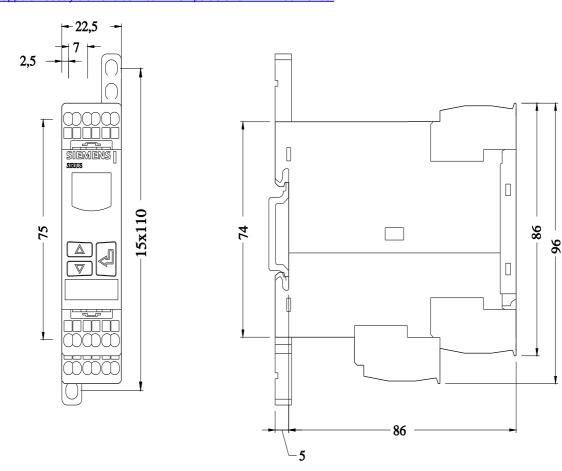
https://support.industry.siemens.com/cs/ww/en/ps/3UG4621-2AW30

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG4621-2AW30\&lang=en}}$

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3UG4621-2AW30/manual



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