SIEMENS

Data sheet 3UG4621-2AW30



Digital monitoring relay Current monitoring, 22.5 mm from 2-500 mA AC/DC 0vershoot 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	SIRIUS		
product designation	Current monitoring relay with digital setting		
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 protective separation			
 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		
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		
SVHC substance name	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 Dicyclohexylphthalat (DCHP) - 84-61-7		
Product Function			
product function			
 overcurrent detection 1 phase 	Yes		
 overcurrent detection 3 phase 	No		
 undercurrent detection 1 phase 	Yes		
 undercurrent detection 3 phases 	No		
 overcurrent detection DC 	Yes		
 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	
type of current for monitoring	AC/DC
measurable current	0.003 0.6 A
measurable line frequency	40 500 Hz
adjustable current response value current	
• 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 value	0.1 250 mA
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	5.0%
relative metering precision	5 % 0.1 %/°C
temperature drift per °C Auxiliary circuit	U. 1 701 U
number of NC contacts delayed switching	0
number of NC contacts delayed switching number of NO contacts delayed switching	0
number of NO contacts delayed switching number of CO contacts delayed switching	1
operating frequency with 3RT2 contactor maximum	5 000 1/h
Main circuit	
number of poles for main current circuit	1
operating voltage rated value	24 240 V
ampacity of the output relay at AC-15	
• 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 output	4 A
relay Electromagnetic compatibility	
conducted interference	
due to burst according to IEC 61000-4-4	2 kV
 due to burst according to IEC 61000-4-4 due to conductor-earth surge according to IEC 61000-4-5 	2 kV
due to conductor-earth surge according to IEC 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	
between input and output	Yes
• between the outputs	Yes
between the voltage supply and other circuits	Yes
Connections/ Terminals	
product component removable terminal for main circuit	Yes
product component removable terminal for auxiliary and control circuit	Yes
type of electrical connection	
7F	

for auxiliary and control circuit	spring-loaded terminals		
	opining roadou terminale		
type of connectable conductor cross-sections			
• solid	2x (0.25 1.5 mm²)		
 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)		
 for AWG cables solid 	2x (24 16)		
 for 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		
 finely stranded without core end processing 	0.25 1.5 mm ²		
AWG number as coded connectable conductor cross section			
• solid	24 16		
• stranded	24 16		
nstallation/ 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		
— 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			
installation altitude at height above sea level maximum	2 000 m		
ambient temperature			
during operation	-25 +60 °C		
during storage	-40 +85 °C		
during transport	-40 +85 °C		
Approvals Certificates			
General Product Approval	EMC Declaration of Conformity		
Confirmation) IUL 😝 (C		
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CCC UL	L RCM EG-Konf.		

Declaration of Conformity

Test Certificates

other

Marine / Shipping







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=3UG4621-2AW30

Cax online generator

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

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

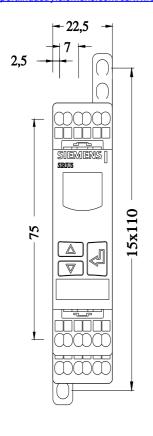
https://support.industry.siemens.com/cs/ww/en/ps/3UG4621-2AW30

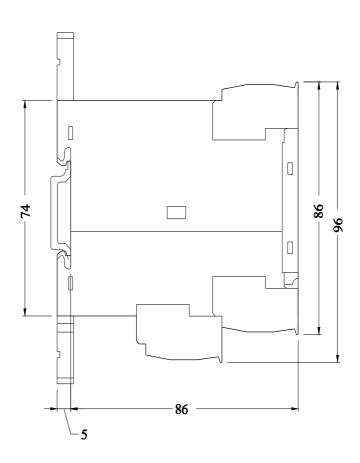
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

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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