SIEMENS

Data sheet 3UG4621-2AA30



Digital monitoring relay Current monitoring, 22.5 mm from 2-500 mA AC/DC 0vershoot and undershoot Supply voltage: 24 V AC/DC 50 to 60 Hz DC and AC without galvanic isolation to measuring circuit 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 Automatic reset spring-type connection system

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 safe isolation			
 between auxiliary and auxiliary circuit 	300 V		
 between control and auxiliary circuit 	300 V		
protection class IP	IP20		
shock resistance acc. to IEC 60068-2-27	sinusoidal half-wave 15g / 11 ms		
vibration resistance acc. to IEC 60068-2-6	1 6 Hz: 15 mm, 6 500 Hz: 2g		
mechanical service life (switching cycles) typical	10 000 000		
electrical endurance (switching cycles) at AC-15 at 230 V typical	100 000		
thermal current of the switching element with contacts maximum	5 A		
reference code acc. to IEC 81346-2	K		
relative repeat accuracy	1 %		
Substance Prohibitance (Date)	01.05.2012 00:00:00		
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 rated value 	24 V		
● at 50 Hz	20.4 26.4 V		
 at 60 Hz rated value 	24 V		
• at 60 Hz	20.4 26.4 V		
supply voltage 1 at DC	20.4 26.4 V		
supply voltage 1 at DC rated value	24 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	0.1 250 mA		
huffering time in the event of newer failure minimum	10 ms		
buffering time in the event of power failure minimum			
accuracy of digital display	+/-1 digit		
relative temperature-related measurement deviation internal resistance of the measuring circuit	5 % 500 mΩ		
	500 111.2		
Precision	F.0/		
relative metering precision	5 %		
temperature drift per °C	0.1 %/°C		
Auxiliary circuit	2		
number of NC contacts delayed switching	0		
number of NO contacts delayed switching	0		
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 24 V		
Outputs			
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 relay	4 A		
Electromagnetic compatibility			
conducted interference			
due to burst acc. to IEC 61000-4-4	2 kV		
• due to conductor-earth surge acc. to IEC 61000-4-5	2 kV		
due to conductor-conductor surge acc. to IEC	1 kV		
61000-4-5			
field-based interference acc. to IEC 61000-4-3	10 V/m		
electrostatic discharge acc. 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 	No		

Connections/ Terminals			
product component removable terminal for main circuit	Yes		
product component removable terminal for auxiliary and control circuit	Yes		
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			
• 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)		
at AWG cables solid	2x (24 16)		
 at AWG cables stranded 	2x (24 16)		
connectable conductor cross-section			
• solid	0.25 1.5 mm ²		
 finely stranded with core end processing 	0.25 1.5 mm ²		
finely stranded without core end processing	0.25 1.5 mm²		
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		
— 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		
Certificates/ approvals			
General Product Approval	EMC	Declaration of Conformity	Test Certificates













Test Certificates

Marine / Shipping

other

Railway

Special Test Certificate





Confirmation

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=3UG4621-2AA30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4621-2AA30

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

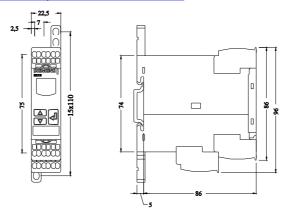
https://support.industry.siemens.com/cs/ww/en/ps/3UG4621-2AA30

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG4621-2AA30&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3UG4621-2AA30/manual



last modified:

12/21/2020