SIEMENS

Data sheet 3UG4622-2AA30



Digital monitoring relay Current monitoring, 22.5 mm from 0.05-10 A 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 0.01 to 5 A 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 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	0.05 15 A		
measurable line frequency	40 500 Hz		
adjustable current response value current			
•1	0.05 10 A		
• 2	0.05 10 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	10 5 000 mA		
value	40		
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	5 mΩ		
Precision			
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	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		
	2 kV		
due to conductor-earth surge acc. to IEC 61000-4-5 due to conductor-conductor surge acc. to IEC	2 kV 1 kV		
 due to conductor-conductor surge acc. to IEC 61000-4-5 	I IV		
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		
- potricon inc calpute	100		

 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 	sprin	g-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 (2	24 16)			
 at AWG cables stranded 	2x (2	24 16)			
connectable conductor cross-section					
solid	0.25 1.5 mm ²				
 finely stranded with core end processing 	0.25	0.25 1.5 mm²			
 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	0				
— forwards	0 mm				
— backwards	0 mm				
— upwards — downwards	0 mm				
— at the side	0 mm				
	0 mm				
for grounded partsforwards	0 mm				
— backwards	0 mm				
— packwards — upwards	0 mm				
— at the side	0 mm				
— downwards					
for live parts	0 mm				
— forwards	0 mm				
— backwards	0 mm				
— packwards — upwards	0 mm				
— upwards — downwards	0 mm				
— at the side	0 mm				
Ambient conditions	V IIIII				
installation altitude at height above sea level maximum	2 000 m				
ambient temperature	2 000 111				
during operation	-25 +60 °C				
during operation during storage	-25 +60 ℃ -40 +85 °C				
during storage during transport	-40 +85 °C				
Certificates/ approvals					
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=3UG4622-2AA30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4622-2AA30

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

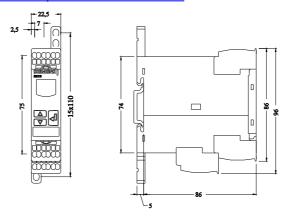
https://support.industry.siemens.com/cs/ww/en/ps/3UG4622-2AA30

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG4622-2AA30&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3UG4622-2AA30/manual



last modified:

12/21/2020