SIEMENS

Data sheet 3UG4622-2AW30



Digital monitoring relay Current monitoring, 22.5 mm from 0.05-10 A 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 0.01 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 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		
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	К		
relative repeat accuracy	1 %		
Substance Prohibitance (Date)	05/01/2012		
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	0.05 15 A		
measurable line frequency	40 500 Hz		
adjustable current response value current	0.05 40.4		
• 1	0.05 10 A		
• 2	0.05 10 A		
adjustable response delay time	0.1 20 s		
when starting with lower or upper limit violation	0.1 20 s		
with lower or upper limit violation adjustable switching hysteresis for measured current value	10 5 000 mA		
buffering time in the event of power failure minimum	10 5 000 MA		
	+/-1 digit		
accuracy of digital display 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	0.1 /01 0		
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	24 240 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 conductor-earth surge according to IEC 61000-4-5 	2 kV		
due to conductor-conductor surge according to IEC 61000-4-5	1 kV		
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 • 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)	
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 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		
		Declaration of Con-
General Product Approval	EMC	formity
Confirmation	\ FOF &	HK
(w .) (ψ		, CA
ccc	LIIL ROM	
	7.2	











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=3UG4622-2AW30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4622-2AW30

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

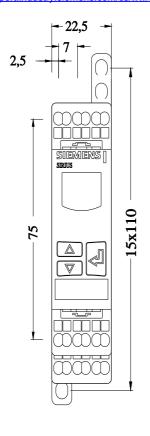
https://support.industry.siemens.com/cs/ww/en/ps/3UG4622-2AW30

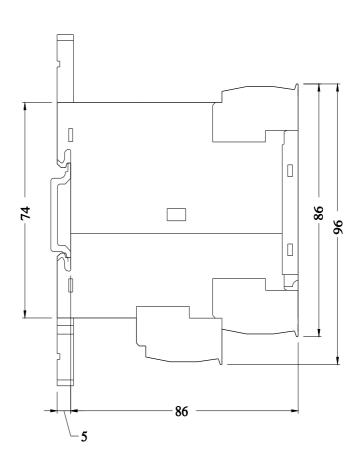
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG4622-2AW30&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3UG4622-2AW30/manual





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