SIEMENS

Data sheet

3UG4631-1AA30



Digital monitoring relay Voltage monitoring, 22.5 mm from 0.1-60 V AC/DC 0vershoot and undershoot Supply voltage: 24 V AC/DC 50 to 60 Hz DC and AC without galvanic isolation to measuring circuit Noise pulses delay 0.1 to 20 s Hysteresis 0.1 to 30 V 1 change-over contact with or without fault buffer screw terminal Successor product for 3UG3531-1AC..

product brand name	SIRIUS				
product designation	Voltage monitoring relay with digital setting				
product type designation	3UG4				
General technical data					
product function	Voltage 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				
type of voltage					
 for monitoring 	AC/DC				
 of the control supply voltage 	AC/DC				
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	К				
relative repeat accuracy	1 %				
Substance Prohibitance (Date)	05/01/2012				
Product Function					
product function					
 undervoltage detection 	Yes				
 overvoltage detection 	Yes				
 overvoltage detection 1 phase 	Yes				
 overvoltage detection 3 phase 	No				
 overvoltage detection DC 	Yes				
 undervoltage detection 1 phase 	Yes				
 undervoltage detection 3 phases 	No				
 undervoltage detection DC 	Yes				
 voltage window recognition 1 phase 	Yes				
 voltage window recognition 3 phase 	No				
 voltage window recognition DC 	Yes				
 adjustable open/closed-circuit current principle 	Yes				
external reset	Yes				

● auto-RESET	Yes
Control circuit/ Control	
control supply voltage at AC	
at 50 Hz rated value	24 V
at 60 Hz rated value	24 V
control supply voltage at DC	
rated value	24 V
operating range factor control supply voltage rated value at DC	
 initial value 	0.85
 full-scale value 	1.15
operating range factor control supply voltage rated value at AC at 50 Hz	
 initial value 	0.85
• full-scale value	1.15
operating range factor control supply voltage rated value at AC at 60 Hz	
• initial value	0.85
full-scale value	1.15
Measuring circuit	
measurable line frequency	40 500 Hz
measurable voltage at AC	0.1 60 V
measurable voltage at DC	0.1 60 V
adjustable response delay time	0.1 20.5
with lower or upper limit violation accuracy of digital display	0.1 20 s +/-1 digit
accuracy of digital display relative temperature-related measurement deviation	
Precision	0.1 /0
relative metering precision	5 %
Auxiliary circuit	5 /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
ampacity of the output relay at AC-15 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	5 mA
continuous current of the DIAZED fuse link of the output relay	4 A
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 	No
Connections/ Terminals	
product component removable terminal for auxiliary	Yes
and control circuit type of electrical connection	screw.type terminals
type of electrical connection	screw-type terminals

 solid finely stranded at AWG cables at AWG cables at AWG cables solid solid finely stranded AWG number as consection solid stranded 	s stranded	ing	1x (0.5 2x (20 2x (20 0.5 2 0.5 2 20 1 20 1	14) 4 mm² 2.5 mm² 4		
Installation/ mountin						
mounting position fastening method height width depth required spacing • with side-by-si	de mounting		92 mm 22.5 m 91 mm	m		
 — forwards — backwards — upwards — downwards — at the sid ● for grounded p 	ds e		0 mm 0 mm 0 mm 0 mm 0 mm			
 forwards backward upwards at the sid downward 	e		0 mm 0 mm 0 mm 0 mm 0 mm			
 for live parts forwards backwards upwards at the sid Ambient conditions			0 mm 0 mm 0 mm 0 mm			
	on	el maximum	2 000 1 -25 -40	+60 °C +85 °C		
Certificates/ approva General Product A					EMC	Declaration of
	μρισναι					Conformity
<u>Confirmation</u>		(U) u		EHC	RCM	UK CA
Declaration of Conformity	Test Certificates			Marine / Shipping		other
CE EG-Konf.	Type Test Certific- ates/Test Report	<u>Special Test Ce</u> <u>ate</u>	<u>ertific-</u>	Lloyds Register us	DNV-GL DNV-GL	<u>Confirmation</u>

Siemens h	as decided to exit the Russian market (see here).
https://pres	s.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business
	working on the renewal of the current EAC certificates.
	act your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply thes an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).
Informatio	n on the packaging
https://supp	ort.industry.siemens.com/cs/ww/en/view/109813875
	n- and Downloadcenter (Catalogs, Brochures,)
https://www	.siemens.com/ic10
Industry M	all (Online ordering system)
<u>https://mall.</u>	industry.siemens.com/mall/en/en/Catalog/product?mlfb=3UG4631-1AA30
Cax online	generator
http://suppc	rt.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4631-1AA30
	upport (Manuals, Certificates, Characteristics, FAQs,)
https://supp	ort.industry.siemens.com/cs/ww/en/ps/3UG4631-1AA30
	base (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG4631-1AA30⟨=en
Characteri	stic: Derating
https://supp	ort.industry.siemens.com/cs/ww/en/ps/3UG4631-1AA30/manual

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