SIEMENS

Data sheet

3UG4631-2AA30



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 spring-type connection system

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 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	К		
relative repeat accuracy	1 %		
Substance Prohibitance (Date)	01.05.2012 00:00:00		
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		

	Va
 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 DC	0.1 60 V
adjustable response delay time	
 with lower or upper limit violation 	0.1 20 s
accuracy of digital display	+/-1 digit
relative temperature-related measurement deviation	0.1 %
Precision	
relative metering precision	5 %
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
Outputs	
operational current at 17 V minimum	5 mA
continuous current of the DIAZED fuse link of the	4 A
output relay	
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 61000-4-5	1 kV
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 auxiliary and control circuit	Yes
type of electrical connection	spring-loaded terminals
type of connectable conductor cross-sections	

• solid	2x (0.25 1.5 mm ²)			
 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 mm²			
 finely stranded with core end processing 	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 mm			
— 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			
— 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				
	FMC	Declaration of	Test Cartificates	
General Product Approval	EMC	Conformity	Test Certificates	
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	RCM	EG-Konf.		
Test Certificates Marine / Shipping	other	Railway		
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Test Certificates Marine / Shipping Special Test Certific- Image: Certific - Certific-	other <u>Confirmation</u>	Railway <u>Vibration and Shock</u>		
Special Test Certific- ate Hoyds				
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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=3UG4631-2AA30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4631-2AA30

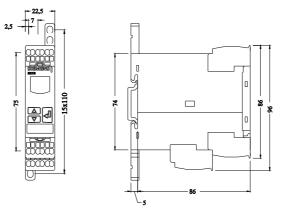
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3UG4631-2AA30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG4631-2AA30&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3UG4631-2AA30/manual



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