SIEMENS

product brand name

Data sheet 3UG4632-1AW30

SIRIUS



Digital monitoring relay Voltage monitoring, 22.5 mm from 10 to 600 V AC/DC 0vershoot and undershoot 24 to 240 V AC/DC 50 to 60 Hz DC and AC Noise pulses delay 0.1 to 20 s Hysteresis 0.1 to 300 V 1 change-over contact with or without fault buffer screw terminal Successor product for 3UG3532-1AL20, 3UG3532-1AG20

product brand name	SIKIUS				
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	K				
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				

a adjustable open/closed circuit correct principle	Von		
adjustable open/closed-circuit current principle automol react	Yes		
external reset	Yes		
• auto-RESET	Yes		
Control circuit/ Control			
control supply voltage at AC			
at 50 Hz rated value	24 240 V		
at 60 Hz rated value	24 240 V		
control supply voltage at DC			
rated value	24 240 V		
operating range factor control supply voltage rated value at DC			
initial value	0.85		
full-scale value	1.1		
operating range factor control supply voltage rated value at AC at 50 Hz			
• initial value	0.85		
• full-scale value	1.1		
operating range factor control supply voltage rated value at AC at 60 Hz			
initial value	0.85		
full-scale value	1.1		
Measuring circuit			
measurable line frequency	40 500 Hz		
measurable voltage at DC	10 600 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	· rotocaro doparación		
between input and output	Yes		
between input and output between the outputs	Yes		
between the outputs between the voltage supply and other circuits	Yes		
Connections/ Terminals	100		
product component removable terminal for auxiliary	Yes		
and control circuit	and the second s		
type of electrical connection	screw-type terminals		
type of connectable conductor cross-sections			

• solid		0.5 4 mm2), 2x (0.5				
 finely stranded with core end processing 		1x (0.5 2.5 mm2), 2x (0.5 1.5 mm2)				
 at AWG cables solid 		.0 14)				
at AWG cables stranded	2x (2	2x (20 14)				
connectable conductor cross-section						
• solid		4 mm²				
finely stranded with core end processing	0.5 2.5 mm²					
AWG number as coded connectable conductor cross section						
• solid	20	. 14				
• stranded	20					
tightening torque with screw-type terminals	1.2	1.2 0.8 N·m				
Installation/ mounting/ dimensions						
mounting position	any					
fastening method		on mounting				
height	92 m	-				
width	22.5					
depth	91 m	ım				
required spacing						
with side-by-side mounting						
— forwards	0 mn	n				
— backwards	0 mn	n				
— upwards	0 mn	n				
— downwards	0 mm					
— at the side	0 mn	0 mm				
for grounded parts						
— forwards	0 mm					
— backwards	0 mm					
— upwards	0 mn	n				
— at the side	0 mn	n				
— downwards	0 mn	n				
for live parts						
— forwards	0 mn	0 mm				
— backwards	0 mn	0 mm				
— upwards	0 mn	0 mm				
— at the side	0 mn	0 mm				
Ambient conditions						
installation altitude at height above sea level maximum	2 00	2 000 m				
ambient temperature						
during operation		-25 +60 °C				
during storage		-40 +85 °C				
during transport	-40 .	-40 +85 °C				
Certificates/ approvals						
General Product Approval		EMC	Declaration of Conformity	Test Certificates		











Special Test Certificate

Test Certificates

Marine / Shipping

other

Railway

Type Test Certificates/Test Report





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=3UG4632-1AW30

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3UG4632-1AW30}$

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3UG4632-1AW30

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG4632-1AW30&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3UG4632-1AW30/manual

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