SIEMENS

Data sheet

3UG4632-1AW30



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	SIRIUS		
product designation	Voltage monitoring relay with digital setting		
product type designation	3UG4		
Seneral 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 protective separation			
 between auxiliary and auxiliary circuit 	300 V		
 between control and auxiliary circuit 	300 V		
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		
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8		
Weight	0.142 kg		
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 			
· underveitage deteotion e pridece	No		
undervoltage detection DC	No Yes		

	N
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	24 240 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 AC	10 600 V
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
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	1A
• 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	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
Electrical Safety	
protection class IP on the front according to IEC 60529	IP20

onnections/ Terminals	
product component removable terminal for auxiliary and control circuit	Yes
type of electrical connection	screw terminal
type of connectable conductor cross-sections	
• solid	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
 finely stranded with core end processing 	1x (0.5 2.5 mm2), 2x (0.5 1.5 mm2)
 for AWG cables solid 	2x (20 14)
 for AWG cables stranded 	2x (20 14)
connectable conductor cross-section	
• solid	0.5 4 mm²
 finely stranded with core end processing 	0.5 2.5 mm ²
AWG number as coded connectable conductor cross section	
• solid	20 14
stranded	20 14
tightening torque with screw-type terminals	1.2 0.8 N·m
nstallation/ mounting/ dimensions	
mounting position	any
fastening method	snap-on mounting
height	92 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
— at the side	0 mm
mbient 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
nvironmental footprint	
Global Warming Potential [CO2 eq] total	17.1 kg
Global Warming Potential [CO2 eq] during manufacturing	4.44 kg
Global Warming Potential [CO2 eq] during operation	13.7 kg
Global Warming Potential [CO2 eq] after end of life	-1.06 kg
pprovals Certificates	
General Product Approval	
	E (N) FHF
	- LIIL
CCC EG-Kor	nf. UL — – – –

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Test Certificates

Marine / Shipping

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RCM	<u>KC</u>	<u>Special Test Certific-</u> <u>ate</u>	Type Test Certific- ates/Test Report		Lloydis Register us		
other	Railway	Environment					
<u>Confirmation</u>	Special Test Certific- ate	EPD	Environmental Con- firmations				
Further information 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=3UG4632-1AW30 Cax online generator 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/cs/ww/en/ps/3UG4632-1AW30⟨=en Characteristic: Derating https://support.industry.siemens.com/cs/ww/en/ps/3UG4632-1AW30/manual							

last modified:

11/9/2024 🖸