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 product designation product type designation SIRIUS

Voltage monitoring relay with digital setting

31 IG4

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	K
relative repeat accuracy	1 %
Substance Prohibitance (Date)	05/01/2012

Prod		_	
	uct		OII

roduct 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	24 240 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	0.05
Initial value full-scale value	0.85 1.1
	1.1
Measuring circuit	40 500 11-
measurable line frequency measurable voltage at AC	40 500 Hz 10 600 V
measurable voltage at AC measurable voltage at DC	10 600 V 10 600 V
adjustable response delay time	10 000 V
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	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	4 A
output relay Electromagnetic compatibility	
conducted interference ● due to burst according to IEC 61000-4-4	2 kV
due to burst according to IEC 61000-4-4 due to conductor-earth surge according to IEC	2 kV
61000-4-5	LIV
due to conductor-conductor surge according to IEC	1 kV
61000-4-5 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 auxiliary	Yes
and control circuit	
type of electrical connection	screw-type terminals

type of connectable conductor cross-sections 1x (0.5 ... 4 mm2), 2x (0.5 ... 2.5 mm2) 1x (0.5 ... 2.5 mm2), 2x (0.5 ... 1.5 mm2) • finely stranded with core end processing • at AWG cables solid 2x (20 ... 14) at 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 mm² AWG number as coded connectable conductor cross section 20 ... 14 solid stranded 20 ... 14 tightening torque with screw-type terminals 1.2 ... 0.8 N·m Installation/ 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

installation altitude at height above sea level maximum

ambient temperature

during operation

during storage

during transport

2 000 m

-25 ... +60 °C

-40 ... +85 °C

-40 ... +85 °C

Certificates/ approvals

General Product Approval EMC

Declaration of Conformity

Confirmation











Declaration of Conformity

Test Certificates

Marine / Shipping

other

(€

Special Test Certificate

Type Test Certificates/Test Report





Confirmation

Railway

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

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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