SIEMENS

Data sheet 3UG4632-1AA30



Digital monitoring relay Voltage monitoring, 22.5 mm from 10 to 600 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 300 V 1 change-over contact with or without fault buffer screw terminal Successor product for 3UG3532-1AC..

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 protective separation			
 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		
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		
SVHC substance name	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8		
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	165
control supply voltage at AC	
at 50 Hz rated value	24 V
at 60 Hz rated value at 60 Hz rated value	24 V
	24 V
control supply voltage at DC	24 V
rated value operating range factor control supply voltage rated value at	24 V
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	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	0114
• 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 and	Yes

control circuit			
type of electrical connection	screw-type terminals		
type of connectable conductor cross-sections			
• solid	1x (0.5 4 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 mm²		
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		
stallation/ 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		
pprovals Certificates			
General Product Approval		EMC	Declaration of Con formity



Confirmation









Declaration of Conformity

Test Certificates

Marine / Shipping

other

CE

Special Test Certificate

Type Test Certificates/Test Report





Confirmation

Railway

Vibration and Shock

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3UG4632-1AA30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4632-1AA30

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3UG4632-1AA30

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG4632-1AA30&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3UG4632-1AA30/manual

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