SIEMENS

3UG4832-2AA40 **Data sheet**



Digital monitoring relay Voltage monitoring, 22.5 mm for IO-Link 10...600 V AC/DC Overvoltage and undervoltage Hysteresis 0.1 to 300 V ON-delay time Tripping delay time 1 change-over contact, spring-type connection system

product brand name product designation product type designation SIRIUS

Voltage monitoring relay with digital setting

General technical data product function

design of the display

insulation voltage for overvoltage category III

according to IEC 60664

• with degree of pollution 2 rated value

degree of pollution type of voltage

• for monitoring

of the control supply voltage

surge voltage resistance rated value

maximum permissible voltage for safe isolation

• between control and auxiliary circuit

protection class IP

shock resistance according to IEC 60068-2-27 vibration resistance according to IEC 60068-2-6 mechanical service life (operating cycles) typical electrical endurance (operating cycles) at AC-15 at 230 V typical

thermal current of the switching element with

contacts maximum

reference code according to IEC 81346-2

relative repeat accuracy

Substance Prohibitance (Date)

2

AC/DC

DC

1 ... 6 Hz: 15 mm, 6 ... 500 Hz: 2g

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Product Function

product function

•	undervoltage	detection
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• undervoltage detection 3 phases

• voltage window recognition 1 phase

• voltage window recognition DC

external reset

Voltage monitoring relay

LCD

690 V

6 kV

690 V

IP20

sinusoidal half-wave 15g / 11 ms

10 000 002 100 000

5 A

1 %

Yes

Yes

05/01/2012

• overvoltage detection

 overvoltage detection 1 phase • overvoltage detection 3 phase

 overvoltage detection DC • undervoltage detection 1 phase

• undervoltage detection DC

• voltage window recognition 3 phase

• adjustable open/closed-circuit current principle

Yes No Yes Yes No Yes Yes No Yes Yes

Yes

• auto-RESET	Yes	
Control circuit/ Control		
control supply voltage at DC		
• rated value	24 V	
operating range factor control supply voltage rated		
value at DC		
• initial value	0.75	
full-scale value	1.25	
Measuring circuit		
measurable line frequency	500 40 Hz	
measurable voltage at AC	10 600 V	
measurable voltage at DC adjustable response delay time	10 600 V	
when starting	0 999.9 s	
with lower or upper limit violation	0 999.9 s	
accuracy of digital display	+/-1 digit	
relative temperature-related measurement deviation	0.1 %	
Precision		
relative metering precision	5 %	
Communication/ Protocol		
protocol is supported IO-Link protocol	Yes	
IO-Link transfer rate	COM2 (38,4 kBaud)	
point-to-point cycle time between master and IO-Link	10 ms	
device minimum		
type of voltage supply via input/output link master	Yes	
data volume		
 of the address range of the inputs with cyclical transfer total 	4 byte	
of the address range of the outputs with cyclical transfer total	2 byte	
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 semiconductor output in SIO mode	200 mA	
operational current at 17 V minimum	10 mA	
continuous current of the DIAZED fuse link of the output relay	4 A	
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 voltage supply and other circuits	Yes	
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 mm²)	
 finely stranded with core end processing 	2 x (0.25 1.5 mm ²)	
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 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 24 ... 16 solid stranded 24 ... 16 Installation/ mounting/ dimensions mounting position any fastening method snap-on mounting height 94 mm width 22.5 mm 91 mm depth required spacing • with side-by-side mounting - forwards 0 mm 0 mm - backwards - upwards 0 mm 0 mm - downwards - 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 -25 ... +60 °C · during operation during storage 85 ... -40 °C during transport 85 ... -40 °C Certificates/ approvals **General Product Approval EMC**

Manufacturer Declaration



Confirmation







Declaration of Conformity

Test Certificates

Marine / Shipping

other

CE EG-Konf.



Type Test Certificates/Test Report

Special Test Certificate



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=3UG4832-2AA40

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UG4832-2AA40

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

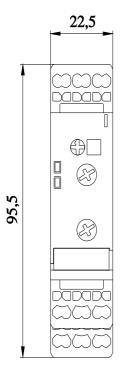
https://support.industry.siemens.com/cs/ww/en/ps/3UG4832-2AA40

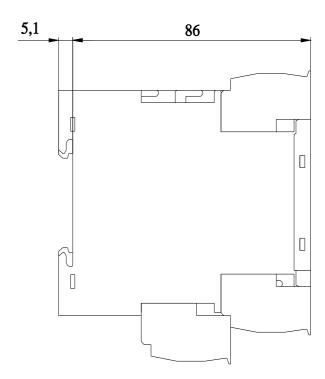
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$

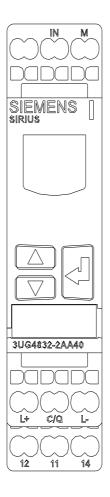
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG4832-2AA40&lang=en

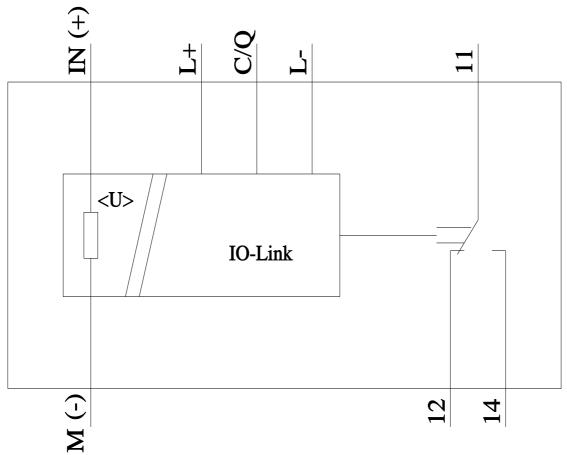
Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3UG4832-2AA40/manual









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