SIEMENS

Data sheet 3UG4832-2AA40



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	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 2 rated value 	690 V
degree of pollution	2
type of voltage	
• for monitoring	AC/DC
of the control supply voltage	DC
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation	
between control and auxiliary circuit	690 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	10 000 002
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 Dicyclohexylphthalat (DCHP) - 84-61-7
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	
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	10 600 V
adjustable response delay time	
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	2 byte
total 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	3 000 1/11
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	4 A
relay Electromagnetic compatibility	
conducted interference	
	2 kV
 due to burst according to IEC 61000-4-4 due to conductor-earth surge according to IEC 61000-4-5 	2 kV
due to conductor-earth surge according to IEC 6 1000-4-5 due to conductor-conductor surge according to IEC	1 kV
61000-4-5	
field bened interference	10.\//
field-based interference according to IEC 61000-4-3	10 V/m
electrostatic discharge according to IEC 61000-4-2	10 V/m 6 kV contact discharge / 8 kV air discharge
electrostatic discharge according to IEC 61000-4-2 Galvanic isolation	6 kV contact discharge / 8 kV air discharge
electrostatic discharge according to IEC 61000-4-2 Galvanic isolation design of the electrical isolation	
electrostatic discharge according to IEC 61000-4-2 Galvanic isolation design of the electrical isolation galvanic isolation	6 kV contact discharge / 8 kV air discharge Protective separation
electrostatic discharge according to IEC 61000-4-2 Galvanic isolation design of the electrical isolation galvanic isolation • between input and output	6 kV contact discharge / 8 kV air discharge Protective separation Yes
electrostatic discharge according to IEC 61000-4-2 Galvanic isolation design of the electrical isolation galvanic isolation • between input and output • between the voltage supply and other circuits	6 kV contact discharge / 8 kV air discharge Protective separation
electrostatic discharge according to IEC 61000-4-2 Galvanic isolation design of the electrical isolation galvanic isolation • between input and output • between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and	6 kV contact discharge / 8 kV air discharge Protective separation Yes
electrostatic discharge according to IEC 61000-4-2 Galvanic isolation design of the electrical isolation galvanic isolation • between input and output • between the voltage supply and other circuits Connections/ Terminals	6 kV contact discharge / 8 kV air discharge Protective separation Yes Yes
electrostatic discharge according to IEC 61000-4-2 Galvanic isolation design of the electrical isolation galvanic isolation • between input and output • between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection	6 kV contact discharge / 8 kV air discharge Protective separation Yes Yes
electrostatic discharge according to IEC 61000-4-2 Galvanic isolation design of the electrical isolation galvanic isolation • between input and output • between the voltage supply and other circuits Connections/ Terminals product component removable terminal for auxiliary and control circuit	6 kV contact discharge / 8 kV air discharge Protective separation Yes Yes

finally strength of with a second and a second	0 (0.05 4.52)
finely stranded with core end processing	2 x (0.25 1.5 mm²)
finely stranded without core end processing	2x (0.25 1.5 mm²)
• for AWG cables solid	2x (24 16)
for AWG cables stranded	2x (24 16)
connectable conductor cross-section	
• solid	0.25 1.5 mm ²
finely stranded with core end processing	0.25 1.5 mm ²
finely stranded without core end processing	0.25 1.5 mm²
AWG number as coded connectable conductor cross section	
• solid	24 16
stranded	24 16
Installation/ mounting/ dimensions	
mounting position	any
fastening method	snap-on mounting
height	94 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
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	8540 °C
during transport	8540 °C
Approvals Certificates	
General Product Approval	EMC

Manufacturer Declaration



Confirmation







Declaration of Conformity

Test Certificates

Marine / Shipping

other

((



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,...)

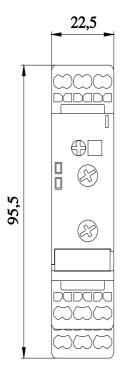
https://support.industry.siemens.com/cs/ww/en/ps/3UG4832-2AA40

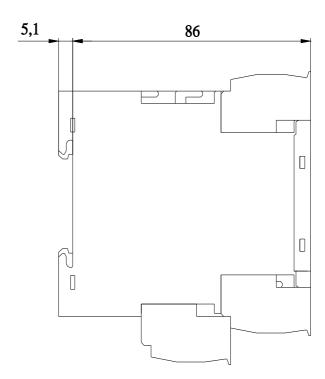
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

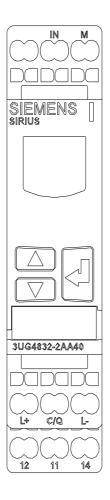
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UG4832-2AA40&lang=en

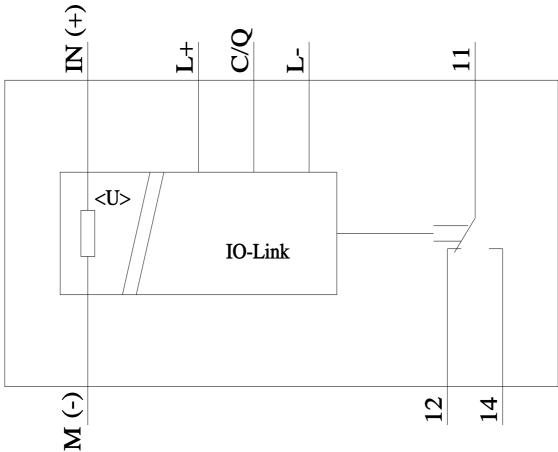
Characteristic: Derating

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









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